

2007 PRIMARY 6 MATHS

1.	ACS (BAKER)	I Fai	SA1	SA2
2.	AI TONG	1 120	SA1	SA2
3.	HENRY PARK	1 28-21	SA1	SA2
4.	MAHA BODHI SCHOOL		11	SA2
5.	NAN HUA	CA1	SA1	SA2
6.	NANYANG	CA1	SA1	SA2
7.	PEI CHUN	- Q	T ÷	SA2
8.	PEI HWA	CA1	SA1	SA2
9.	RAFFLES GIRL	50	SA1	SA2
10.	ROSYTH	CA1	SA1	SA2
11.	SCGS	1 3471	SA1	SA2

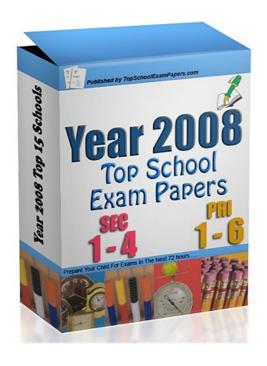
Total: Pages

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Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2007 MATHEMATICS

Booklet A

Name:	 	()
Class: Primary 6			
Date: 8 May 2007	•	•	• •

Duration of Booklet A & B: 2 h 15 min

THIS BOOKLET CONTAINS PAGES 1 to 6.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

SECTION A - Multiple Choice Questions (20 MARKS)

Questions 1 to 10 carry 1 mark each.

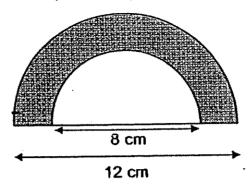
Questions 11 to 15 carry 2 marks each.

For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

- 1. What is the value of $84 (25 5 \times 3) + 9$?
 - 1) 53
 - 2) 63
 - 3) 65
 - 4) 83
- 2. Express 7.08 litres in milliliters.
 - 1) 708 ml
 - 2) 7 008 ml
 - 3) 7 080 ml
 - 4) 7 800 ml
- 3. Joe is 5 years younger than Mary. If Mary is z years old, what is their average age?
 - 1) $\frac{(5+z)}{2}$ years old
 - 2) $\frac{(z-5)}{2}$ years old
 - 3) $\frac{(2z-5)}{2}$ years old
 - 4) $\frac{(2z+5)}{2}$ years old

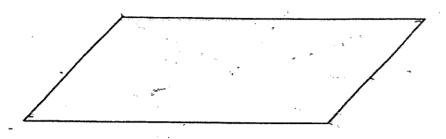
- 4. The average mass of 5 girls is 35 kg. If the total mass of the first 4 girls is 130 kg, what is the mass of the fifth girl?
 - 1) 7 kg
 - 2) 35 kg
 - 3) 45 kg
 - 4) 95 kg
- 5. James spent $\frac{1}{5}$ of his salary on transport and used $\frac{5}{8}$ of the remainder on lunch. What fraction of his salary was left?
 - 1) $\frac{1}{8}$
 - 2) $\frac{3}{10}$
 - 3) $\frac{3}{8}$
 - 4) $\frac{1}{2}$
- 6. The ratio of the number of apples to the number of oranges at a fruit stall is 5:7. If there are 21 oranges, how many apples and oranges are there?
 - 1) 15
 - 2) 36
 - 3) 42
 - 4) 105

7. Find the area of the shaded part. Give your answer in terms of π .



- 1) $10 \, \pi \, \text{cm}^2$
- $\sim 20 \, \pi \, \text{cm}^2$
 - 3) $26 \pi \text{ cm}^2$
 - 4) $52 \pi \text{ cm}^2$
- 8. There are 1 800 pupils in school ABC. If there are 800 girls in the school, how many per cent more boys than girls are there?
 - 1) 20%
 - 2) 25%
 - 3) 44%
 - 4) 80%
- 9. In $1\frac{2}{3}h = \boxed{?}$ min, which of the following is the missing number in the box?
 - 1) 80
 - 2) 100
 - 3) 120
 - 4) 140

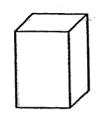
10. The figure below shows a parallelogram. How many line(s) of symmetry does it have?



- 1) 1
- 2) 2
- 3) 0
- 4) 4
- 11. How many 3-cm cubes can be cut from a block of wood measuring 12 cm by 8 cm by 9 cm?
 - 1) 18
 - 2) 24
 - 3) 32
 - 4) 36
- Daisy's height is 1¹/₄ of Josephine's height. If their average height is
 162 cm, find Josephine's height.
 - 1) 72 cm
 - 2) 90 cm
 - 3) 144 cm
 - 4) 180 cm

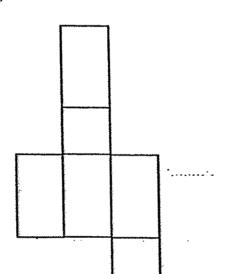
- 13. The ratio of the amount of water in Container A to that in Container B is
 1:2 at first.
 ¹/₃ of the water in Container A is poured into Container B,
 then
 ¹/₄ of the water in Container B is poured into Container A. What is the new ratio of water in Container A is to Container B?
 - 1) 2:7
 - 2) 1:2
 - 3) 5:7
 - 4) 3:4
- 14. Lucas and Daryl left Town X for Town Y at 10 00. Lucas drove at an average speed of 86 km/h. Daryl was 44 km behind Lucas at 14 00. What was Daryl's average speed?
 - 1) 70 km/h
 - 2) 75 km/h
 - 3) 97 km/h
 - 4) 100 km/h

15. The figure shows a cuboid.

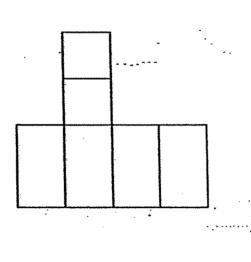


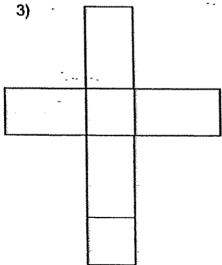
Which of the following is not a net of the cuboid above?

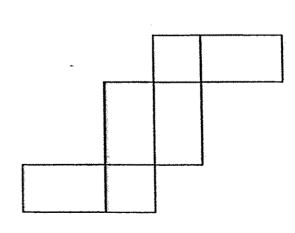
1)



2)









Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2007 MATHEMATICS

Booklet B

Name:)·
***	۹.	•	

Class: Primary 6D

Date: 8 May 2007

Duration of Booklet A & B: 2 h 15 min

Section	Contents	Marks	Marks Obtained
Α	Multiple Choice Questions	20	
В	Short Answers: Part I	10	-
	Short Answers: Part II	20	
С	Problem Sums	50	
	Total Marks	100	
····	Parent's signature	***	

THIS BOOKLET CONTAINS PAGES 7 to 24.

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SECTION B - Short Answers (30 MARKS)

Part I (10 × 1 mark)

Questions 16 to 25 carry 1 mark each. Write your answer in the space provided. Give your answers in the units stated.

16. Find the value of 2a + 6 + 4a - 4 if a = 3.

Answer:

17. How many $\frac{4}{5}$ s are there in 48?

Answer:_____

18. $27 \times 49 = \boxed{ \times 49 - (3 \times 49)}$ What is the missing number in the box?

Answer:

19. The breadth of a rectangle is $\frac{1}{4}$ m. Find the area of the rectangle if the length is twice its breadth.

Answer: _____m²

20. A basket with 5 oranges weighs 2.75 kg. If the basket weighs 1 kg 50 g, what is the weight of the oranges?

Answer:

21. A basin is $-\frac{5}{7}$ filled with water. It needs 30 litres more water to fill the basin completely. What is the capacity of the basin?

Answer:____litres -

22. The average speed of a racing car is 240 km/h. How far will it travel in 35 minutes?

Answer:

23. Express 24 minutes after midnight using the 24-hour clock.

Answer:_____

24. The ratio of the number of ducks to the number of chickens in a farm is 4:5. The number of roosters is $\frac{3}{7}$ the number of hens. If there are 42 hens, find the number of ducks.

Answer		•				
JAME!	٠		-			

25. The table shows the number of toys two machines produced in 6 minutes.

Machines	Number of toys produced in 6 minutes
Machine A	240
Machine B	300

At the rate given, how many toys can Machine A and Machine B produce altogether in 120 seconds?

Answer:

Part II (10 × 2 marks)

Questions 26 to 35 carry 2 marks each. Show all workings clearly. Write your answer in the space provided. Give your answers in the units stated.

26. If the breadth of a rectangle is 3y cm and the length is 2 cm longer than the breadth, find the perimeter of the rectangle. Express your answer in terms of y.

Answer: ____cm

27. The average of 4 numbers is x and the average of another 5 numbers is 8. What is the average of the 9 numbers? (Leave your answer in terms of x).

Answer:

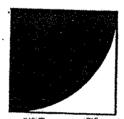
28. The ratio of the number of tennis balls in Basket A to the number of tennis balls in Basket B is 3: 4. If $\frac{1}{6}$ of the tennis balls in Basket A are moved to Basket B, there will be 24 more tennis balls in Basket B than in Basket A. How many tennis balls were there in Basket A at first?

Answer:

29. Mark had \$212 in his piggy bank. He had a total of 38 notes comprising of \$2 and \$10 notes. How many more \$2 notes did he have than \$10 notes?

Answer:

30. The figure below is made up of a square and a quadrant. The area of the square is 196 cm². Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$)



Answer: _____cm

31. A coil of wire was 3 m long. After cutting off 25 equal pieces from it, the length of the remaining wire was 0.5 m. What was the length of each of the 25 pieces?

Answer: _____m

B-11

32. A watch dealer bought 5 watches at a discount of 20%. He paid a total of \$300 for the 5 watches. What was the usual price of each watch?

Answer:\$____

33. Mrs Tan bought some cookies. She gave 30% of the cookies to her neighbour and ate 40% of the remaining cookies. If she had 84 cookies left, how many cookies did she buy?

Answer:

34. A ball was dropped from a height of 36 m. Each time it hit the ground, the ball would rebound half of the height from which it had fallen. Find the total height it had travelled just when the ball hit the ground for the third time.

Answer: n

35. The table below shows the parking charges at a car park:

	a sachadeas a
7.00 a.m. to 10.00 p.m.	\$0.50 per $\frac{1}{2}$ hour
Overnight parking	_ \$2.00

Mr Kang parked his car at the car park from 9.00 p.m. on Thursday to 9.00 a.m. on Friday. How much did he have to pay?

Answer: \$____

SECTION C - Problem Sums (50 MARKS)

For each question from 36 to 48, show your working and mathematical statements clearly in the space below each question. Write your answer in the answer space provided. Marks awarded are shown in the brackets [].

36. A pen costs \$2m and 6 magazines cost \$8m. How much would 3 such pens and 9 such magazines cost?

Answer :______[3M]

37. Lisa and Melinda had \$175 altogether. After they had given away $\frac{2}{5}$ of the total sum of money, Lisa had $\frac{7}{8}$ as much money as Melinda. How much money must Melinda give to Lisa so that they will now have an equal amount of money?

Answer ______[3M]

38. Each time Ann deposits \$4 into her bank account, her father deposits thrice as much as Ann in her account. When Ann has \$208 in her bank account, how much did her father deposit in her account?

Answer:_______[3M]

39. There are 30 problem sums in a test. 4 marks are given for each correct answer and 1 mark will be deducted for each incorrect answer. Joshua obtained 85 marks. How many problem sums did he answer incorrectly?

Answer: [3M]

40. Mr Tan's monthly expenditure for the month of June



The pie chart above shows how Mr Tan used his monthly salary in June.

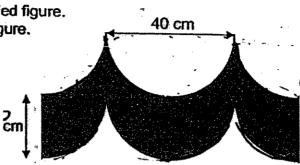
- (a) How much did Mr Tan save?
- (b) In August, Mr Tan's salary increased by 5%. If he spent the same amount of money in August as in June, what fraction of his August salary did he save?

Answer : (a) _______11M]

(b)____[2M]

41. The figure is made up of 2 identical quarter-circles and 2 identical semi-circles. The radius of each quarter-circle is 20 cm and the diameter of each semi-circle is 40 cm. (Take $\pi = 3.14$)

(a) Find the perimeter of the shaded figure.(b) Find the area of the shaded figure.



Answer : (a) _____[2M]

(b) {2M]

- 42. Andrew has 70 more stamps than Basil. If Basil gives Andrew 40 stamps, the number of stamps Andrew has will be 6 times that of Basil's.
 - (a) How many stamps does Andrew have?
 - (b) How many stamps does Basil have?

Answer : (a)	{2M
	* ±
(b)	Гэм

43. Bryan, Henry and Daniel had some marbles. $\frac{5}{9}$ of the marbles belonged to Bryan. The remaining marbles belonged to Henry and Daniel in the ratio of 3:5. Given that Bryan had 161 more marbles than Henry, find the number of marbles belonged to Daniel.

Answer: 34M1

44. Durians were sold at \$12 each. A mango cost 50% less than a durian. Walter paid \$408 for some durians and mangoes.70% of the fruits he bought were durians. How much more money did he spend on durians than on mangoes?

Answer: ______[4M]

45. There were some flowers at a flower shop. The ratio of the number of roses to the number of tulips was 2:3. When 50 more roses and 30 more tulips were added, the ratio of the number of roses to the number of tulips became 5:6. How many flowers were there at first?

46. Joel and Mary share a packet of sweets in the ratio 2:3. After Joel bought 35 more sweets and Mary ate 10% of hers, they had an equal number of sweets.

(a) How many sweets had Mary eaten?

(b) How many sweets were there in the packet at first?

Answer: (a)_____[3M]

(b)____[2M]

- 47. The distance between Town A and Town B was 558 km. Mr Chan started from Town A and drove towards Town B at an average speed of 80 km/h. 30 min later, Mr Ho started from Town B and drove towards Town A at a speed of 68 km/h.
 - (a) What distance had Mr Chan travelled when he met Mr Ho?
 - (b) At what speed should Mr Ho increase by in order to reach Town A in 4 hours' time after meeting Mr Chan?

Answer:	(a)	[3M]
	(b)	だりん

48. The figure below shows the number of toothpicks used to form different number of triangles. Study it carefully and answer the following questions:

1 triangle

2 triangles

3 triangles

4 triangles

... a) Complete the following table:

Number of triangles	1	2	3	4	5	6	*****	10
Number of toothpicks	3	5	7	9	11 	<u>(i)</u>	*****	<u>(ii)</u>

[M1]

- b) How many toothpicks are needed to form 100 triangles?
- c) How many triangles can you form with 101 toothpicks?

Answer: (b) [2M

(c) [2M

Setters: Mdm Farisa and Mr Kelvin Lim Vetters: P6 teachers



Answer sheet

A C S PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

ad	a)(((()))(())	
1.4	33.200 cookies	
2.3	34.90m	
3.3	35.10h-9h=1h	
4.3	0.50x2=1	
5.2	1+2=3	
6.2	9h-7h=2h	
7.1	0.5x4=2	
8.2	3+2=\$5	
9.2		
10.3	36.\$(18m)	
/11.2	37.\$3.50	
12.3	38.\$156	
13, 3	39:7 incorrectly	
14.2	40.a)\$750	m.
15.2	b) 4/21	
**************************************	0/9/21	
16.20	41 -1201 2	
17.60	-41.a)291.2cm	
18.30	b) 1600cm2	
19.1/8	43 a) 140 Hama	
20.1.7kg		
21.105 li		
22.140km	43.115 marbles	
23.0024	44.\$264	
24.48	45.250 flower	
25. 180	46.a)15 sweets	•
26. (12y+4	1)cm b)250 sweets .	
27. <u>4x+40</u>		
9		
78080000	nis balls 47.a)320km	
29.4 more	b) 120km/h	
30.50cm		
31.0.1m	48.a)i)13 ii)21	
32.\$75	b)201 toothpi	
	c)50 triangle	es.



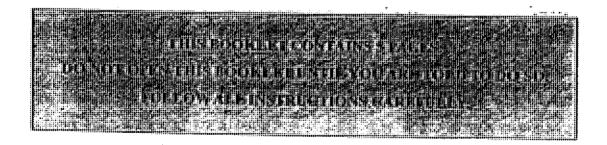
Anglo-Chinese School (Junior)/Anglo-Chinese School (Primary)

P6 MATHEMATICS 2007 COMBINED PRELIMINARY EXAMINATION

. DOGU: -- -

BOOKLET A

Name:		()	Class: Primary 6
Date:	22 August 2007		ח	uration of paper: 2h 15 min

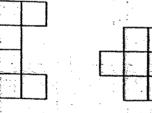


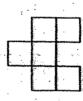
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Mark your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet (20 marks)

- 1 Simplify 12w 5 7w + 8.
 - (1) 5w + 3
 - (2) 5w-3
 - (3) 5w + 13
 - (4) 5w-13
- 2 Express $\frac{1}{40}$ as a decimal
 - (1) 0.025
 - (2) 0.04
 - (3) 0.25
 - (4) 0.4
- 3 Express $\frac{5}{6}$ hour in minutes.
 - (1) 10
 - (2) 50
 - (3) 300
 - (4) 360
- 4 What is the approximate height of a teacher's table?
 - (1) 7 cm
 - (2) 7 m
 - (3) 70 cm
 - (4) 70 m
- A block of metal, 16 cm by 8 cm by 4 cm, was melted and recast into the shape of a cube. What is the length of each side of the cube?
 - (1) 6 cm
 - (2) 8 cm
 - (3) 12 cm
 - (4) 16 cm

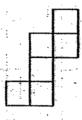
- 6 Jolene and Mary had an equal number of beads. If Mary gave $\frac{2}{7}$ of her beads to Jolene, what was the ratio of Mary's beads to Jolene's beads?

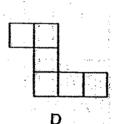
 - 7:5
 - (3)
- The chairs in an examination hall were arranged in rows. Each row had the same number of chairs. Cheryl sat on one of the chairs. There were 7 chairs to her right and 4 chairs to her left. There were 7 chairs in front of her and 3 chairs behind her. How many chairs were there in the examination hall?
 - (1) 110
 - (2)120
 - 121 (3)
- John bought 50 marbles. He bought 10 green marbles and 18 blue marbles. The rest were red marbles. What percentage of the marbles were red?
 - (1) 22%
 - **(2)** 44%
 - (3) 54%
 - 64% (4)
- Which of the following is the net of a cube? 9





В



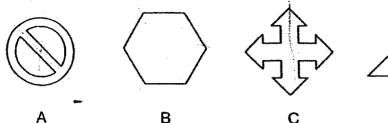


(1)(2) В

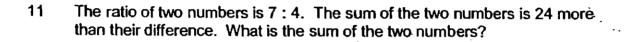
- C
- (3)
- (4)D

D

Which of the following shapes has exactly 2 lines of symmetry?



- •
- (1) A (2) B
- (3) C
- (4) D



- (1) 9
- (2) 33
- (3) 56
- (4) 88

T.

What is the maximum number of circles of radius 2 cm that can be cut out from a rectangle 20 cm by 18 cm?

- (1) 16
- (2) 18
- (3) 20
- (4) 90-

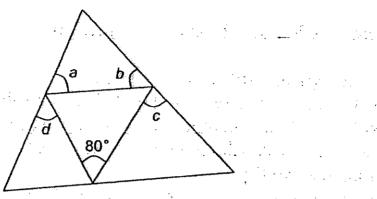
13 A rectangular tank was filled with water flowing from a tap. At 10.00 a.m., the tank was empty. At 1.00 p.m., the tank was $\frac{1}{3}$ filled with water.

At what time would the tank be $\frac{8}{9}$ filled with water flowing from the tap?

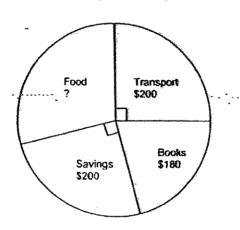
- (1) 4.00 p.m.
- (2) 5.00 p.m.
- (3) 6.00 p.m.
- (4) 7.00 p.m.

`.:·

In the figure below, which is not drawn to scale, what is the value of a + b + c + d?



- (1) 100°
- (2) 120°
- (3) 260°
- (4) 320°.
- The pie chart below shows how Tommy spent his money. What percentage of his money did he spend on food?



- (1) 20 %
- (2) 25 %
- (3) 27.5 %
- (4) 55.5 %



Anglo-Chinese School (Junior)/Anglo-Chinese School (Primary)

P6 MATHEMATICS 2007

COMBINED PRELIMINARY EXAMINATION BOOKLET B

Name:(()) Class: Primary 6		
Date: 22 August 2007		•	Dur	ration of paper: 2h 15min		
,						

Parent's/Guardian's signature

SECTION A. Multiple Choice Questions	20	-
SECTION B. Shorts answers: Part I	10	·
SECTION B. Shorts answers: Part II	20	
SECTION B. Problem Sum	50 .	
Total	100	-

THIS BOOKLET CONTAINS 19 PAGES.

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FOLLOW ALL: INSTRUCTIONS CAREFULLY.

Ques provid	Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)				
16	Use all the digits 3, 5, 0, 8 to form the smallest four-digit odd number that is divisible by 5.				
	•				
***************************************	Ans:				
17	For every \$9 saved by Jeremy, his father would give him another \$3 to save. How much did he save on his own if he had \$144 in his savings?				
	Ans: \$				
18	Ahmad has two 1-dollar coins, three 50-cent coins, eight 20-cent coins and three 5-cent coins in his wallet. How much money does he have in all?				
	·				
~~~·	Ans: \$				
	1 Sub-total:				

Observe the following pattern and find the value of the sum of m and n.

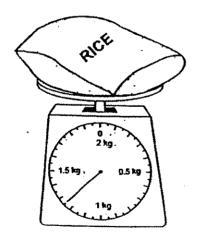
1, 2, 6, 7, 12, 13, 19, m, 27, 28, n, 37, .....

Ans:	

Ben started jogging at 0830 and finished at 1010. How long did he take to complete his jog?

Ans: ____ h ___ min

21..... Look at the figure below. What is the mass of the packet of rice in kg and g?



Ans: ____ kg ____ g

2

Howard has a string measuring 310 cm. Roy's string is  $\frac{1}{4}$  m longer than Howard's string. Find the length of Roy's string.

Ans: ______m

The breadth of a room is  $\frac{1}{4}$  its length. What fraction of the room's perimeter is its length? (Give the answer in its simplest form.)

Ans:

Find the average of the sum of all even numbers between 11 and 19.

Ans:

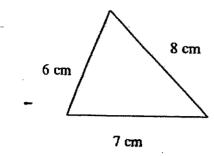
There are green, blue and purple balls in a basket. There are 237 more green balls than blue balls. There are 734 more blue balls than purple balls. How many more green balls than purple balls are there?

Ans:

3

The solid is made up of 2-cm cuber corner of a room. What is the volume of 2.  Sheela has \$30 in her piggy bank. T 50-cent coins. There were 4 more What is the total number of coins She	Ans: _ hey were a m 50-cent coins	ixture of 20-	cm ²
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent and
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent and
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent an
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent and
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent and
50-cent coins. There were 4 more	hey were a m 50-cent∵coins	than 20-cei	cent and
50-cent coins. There were 4 more	50-cent~coins	than 20-cei	cent an
•		piggy bank?	nt coins
	*		
		ed Services	
	Ans:		
4			

The perimeter of a rectangle is twice that of a triangle below. How many possible values of its length are there if each length is a whole number?



Ans: _____

A pen costs \$7 more than a wallet and a story book costs \$5 less than the wallet. If the pen and the story book cost \$21 altogether, find the cost of the wallet.

Ans: \$_____

5

Mary had some beads. She gave  $\frac{1}{6}$  of them to her best friend and  $\frac{1}{2}$  of the remaining beads to her sister. Then she found that she had 75 beads left for herself. How many beads did Mary have at first?

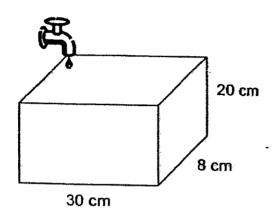
Ans:

Lisa made some kiwi tarts, apple tarts and peach tarts in the ratio 2:3:5. After making another 12 tarts each, the ratio becomes 7:9:13. Find the number of apple tarts she has now.

Ans:

6

Water from a tap flows into a rectangular tank at a rate of 450 cm³ per minute. How long does it take to fill  $\frac{3}{4}$  of the tank?



Ans:	 m	i	п

Mrs Tan and her two children paid \$70 for the entry tickets to an amusement theme park. If a child ticket is  $\frac{3}{4}$  of the price of an adult ticket, what is the price of an adult ticket?

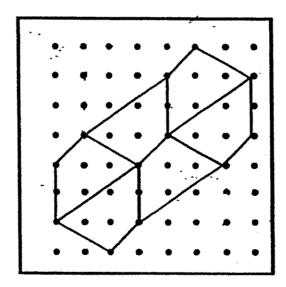
Ans: \$_____

7

It takes 40 workers 8 days to paint a building. How many workers are required to paint a building in 20 days?

Ans: _____

Complete the fessellation below by adding two more basic shapes.



8

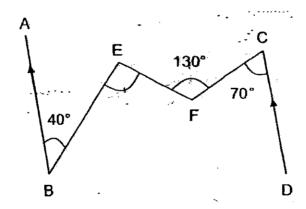
For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Melinda had an average score of 56 marks in the last three topical tests. How many marks must she score in the fourth test so that she can get an average of 65 marks?

Ans: ____[3]

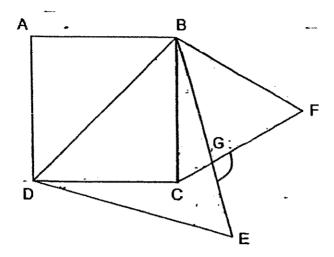
37 In the figure, not drawn to scale, AB is parallel to CD. What is ∠BEF?



Ans: _____[3]

9

38 in the figure, not drawn to scale, ABCD is a square. BDE and BCF are equilateral triangles. What is ∠FGE?



Ans;	[3]

- Leela, Siti and Jane shared \$264. Siti had \$ k less than Leela and Jane had twice as much as Siti.
  - (a)....How much did Siti have in terms of k?
  - (b) If k = \$8, how much did Leela and Jane have altogether?

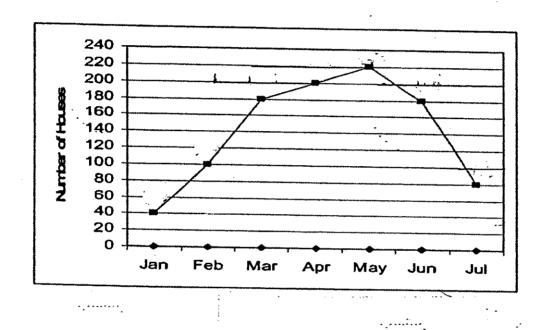
Ans: (a) ______11]

(b) _____[2]

10

40	io may, sne	d collecting stamps in Ja collected 30 stamps mo 50 stamps from January inuary?	re than the month bef	ore She saved
	•			
		-		
	i			
	· :			
				•• · · · · · · · · · · · · · · · · · ·
•			•	
			Ans:	[4]
	as Colin. T have?	.50 more money than Both the 3 of them have \$9.7	0 altogether. How m	uch does Colin
		-		
			ļ	
20-		-	•	•
			Ans:	[4]
		11	Sub-total:	

- The graph below shows the number of houses built during the period from January to July.
  - (a) What was the average number of houses built during March to June?
  - (b) What percentage of the total number of houses built was the month of April?



[2]	Ans: (a)		
[2]	(b)		
		12	
•	Sub-total:	12	

Derrick had  $\frac{2}{3}$  as many stickers as Benedict. After Derrick bought another 8 stickers and Benedict lost 5 stickers, Derrick now has  $\frac{4}{5}$  as many stickers as Benedict. Find the number of stickers Derrick and Benedict had at first.

Ans:/___[4]

13

Marvin bought a box of fruits. 30% of the fruits are apples and the rest oranges. He realised that half of the apples were rotten and threw them away. He then bought some oranges and the number of oranges increased by 40%. After that, he found out that there were 52 more fruits in the box. How many fruits were there in the box at first?

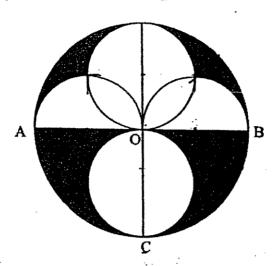
Ans: _____[4

14

Sub-total:

. . . . .

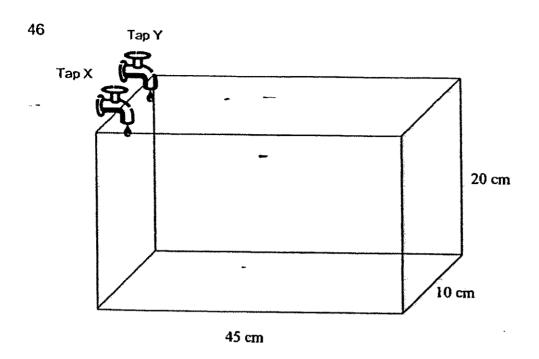
The figure is made up of three circles and two semi-circles. O is the centre of the circle. AB is 42 cm. Find the total area of the shaded part. (Take  $\pi = \frac{22}{7}$ )



Ans:____[4]

15

Şub-total:



A rectangular container measuring 45 cm by 10 cm by 20 cm is empty at first. Water flows from Tap X at a rate of 1.3 litres per minute and Tap Y at a rate of 1.2 litres per minute. How long does it take to completely fill up the container if both taps are turned on at the same time? Give your answer in minutes and seconds.

	Ans:	[4]
16	Sub-total:	

In an auditorium, the ratio of the number of competitors to the number of non-competitors is 8:5. The ratio of the number of male competitors to the number of female competitors is 7:4. Given that  $\frac{3}{5}$  of the non-competitors are males and there are 32 female competitors, how many males and females are there in the auditorium?

Ans: males

Ans: _____females [5]

17

- Mr Goh was travelling from Town X to Town Y. After completing  $\frac{2}{7}$  of the journey, he passed by Mr Lee travelling the same direction. Mr Lee was travelling at an average speed of 60 km/h. Mr Goh reached his destination 3 hours later, while Mr Lee was still 45 km away from Town Y.
  - a) Find the distance between the two towns.
  - b) If Mr Lee left Town X at 11.30 a.m., what time would he arrive at Town Y?

Ans: (a) _____[3]

(b) _______[2]

**END OF PAPER** 

B-18



## ANSWER SHEET

ACS PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 PRELIMINARY EXAMINATION

- 1.1 31)36
- 2.1 32)8mir
- 3.2 33\\$28
- 4.3 (34)16 workers
- 5.2 35).
- 6. 3
- ຊຶ່ງ
- 9.3
- $10a_{r}1$
- 11.
- 13.
- **M**. .
- 16 2025
- 17: \$108
- 18. \$5.25
- 19. 56
- 20. lh40min
- 21. 1kg250g
- 22. 3.35m
- 23: 2/5
- 24. 15
- 25. 971
- 26. 104cm3
- 27. 84coin
- 28. 10
- 29. \$9.50
- 30. 180beads

- 36)56×3∋163 0-465×4=260
  - 260-168=**9**

She have to scone 92 mark

- 377130 3-70° -60°
  - 40 10 ETOO
    - ZBEF-is TOO"
- 38460-45
  - 60+15**=**0
  - 180-75=105
  - F80-105=75
    - 180-75-105
      - FGE is 105

```
45) Area of big circle= r2=22/7x42cmx42cm=5544cm2
   42cm÷4=10.5cm
   10.5cm×10.5cm=110.25cm2
   Area of small circle= 22/7x10 5cmx10.5cm=346.5cm2
   Area of small quardant
   346.5 \text{cm} 2 \times 4 = 86.625 \text{cm} 2
   110.25cm2=86.625cm2=23.625cm2
   23.625cm242=47:25cm2
   Overflan area
   110.25cm2-47.25cm2=63cm2
   346.5cm-63cm=283.5
    346,5x2+283.5) cm2=(693+283.5) cm2
     976 IScm2 🦠
    3544¢m2-976.5cm2≡4567,5cm2
46)45×10×20=9000
      5+2500ml
     000÷2500€3.6
             3 mins 36 seconds
47)5-3=2
    7x8 = 56
   56+32=88
   8 units 388
   1unit→88 = 8=11
    5units→11x5=55
   Male \rightarrow 11x3156
   =33+56=89
   Female \rightarrow 11x2+32
    =22+32=54
    There are 89 males and 54 female.
48) a) 60x3=180
                                b) 11h30min+5h min=16h45min
      180+45=225
                                  Mr Lee arrived at
      7 - 2 = 5
                                   4.45p.m.
      5units→225
      1unit \rightarrow 225 \div 5=45
      7units \rightarrow 45x7=315
      The distance is 315km
```

```
39)a)$ (264-k)
   b) 204-8=256
     296÷4=64
     64x3=192
     192+8=$200
40)10x30≠300
   750-300<del>-</del>450
   450-5-90
   She collected 90
    tamps in January.
    9.70+$1.50=$11.20
     unita→$11.20
     unit→ $11.20÷7=$1.60
   Colin has $1.60
42) a) 180+200+220+180=780
    4-195 4-195 €
    The average number is
    195 houses.
   b) 40+100+180+180+200+220+8
     =1000
    200/1000x100/1=20%
    The percentage is 20%
43)150 sticker
44) 70/100 ÷ 40/100x70%=28%
   30% ÷ 2=15%
   288-158=138
```

1%-->52/13

100%-->52/13x100=400



### AI TONG SCHOOL

# 2007 SEMESTRAL ASSESSMENT 1 PRIMARY 6

### **MATHEMATICS**

DURATION: 2 h 15 min

DATE

: 11 May 2007

### INSTRUCTIONS

Do not open the booklet until you are told to do so. Follow all instructions.

Answer all questions.

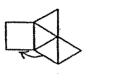
Name	:	()	**
Class	: Primary 6	Marks:	100
Parent's Signature Date			

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1 What is the missing number in the box?

- (1) 3000
- (2) 300
- (3) 3
- (4) 30
- Adrian ate 12 cookies and had 48 left. What fraction of the cookies had he left?
  - (1)  $\frac{1}{5}$
  - (2)  $\frac{1}{4}$
  - (3)  $\frac{3}{4}$
  - (4)  $\frac{4}{5}$
- 3 5 +  $\frac{3}{50}$  is the same as _____
  - (1) 5.03
  - (2) 5.06
  - (3) 5.3
  - (4) 5.6

4 How many of the following nets can be folded to form a pyramid?







B/







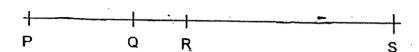


- (1)
- (2)
- (3) 3
- (4) 4
- A file costs twice as much as a pen. The average cost of a file and a pen is \$3.00. How much does a file cost?
  - (1) \$2.00
  - (2) \$3.00
  - (3) \$4.00
  - (4) \$5.00
- When 1200 is added to a number, the answer is the same as multiplying the .....number by 25. What is the number?
  - (1) 25
  - (2) 50
  - (3) 1225
  - (4) 1250
- 7 The ratio of Fatimah's stickers is  $3\frac{1}{2}$  times Devi's stickers. What is the ratio of Fatimah's stickers to the total number of stickers?
  - (1) 2:7
  - (2) 7:2
  - (3) 7:9
  - (4) 9:2

- The price of a bag is increased from \$300 to \$375. Find the percentage increase:
  - (1) 20%
  - (2) 25%
  - (3) 80%
  - (4) 125%
- 9 Simplify 8 + 5a 3 2a.
  - (1) 3a + 5
  - (2) 3a-5
  - (3) 3a + 11
  - (4) 3a-11
- 10 How many seconds are there in  $1\frac{1}{4}$  hours?
  - THL 75 s
  - (2) 750 s
  - (3) 450 s
  - (4) 4500 s
- Mr Lee took  $\frac{1}{3}$ h to travel 28 km from Town X to Town Y. He then increased his speed by 6 km/h and drove from Town Y to Town Z for  $\frac{1}{2}$ h. What is the distance between Town Y and Town Z?
  - (1) 34 km (2) 45 km (3) 60 km (4) 180 km
- Mr Ong drove at an average speed of 60 km/h for  $1\frac{1}{2}$  h. He then drove another 40 km in  $\frac{1}{2}$  h. What was his average speed for the whole journey?
  - (1) 50 km/h (2) 65 km/h (3) 70 km/h (4) 85 km/h

13 In the diagram below, PQ : QS = 3 : 7 and PR : RS = 3 : 5.

What is the fraction  $\frac{QR}{PS}$ ?



 $\mathcal{H}$   $\frac{1}{4}$ 

 $\frac{1}{5}$ 

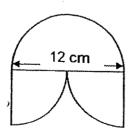
 $\frac{3}{40}$ 

(4) <u>9</u>

Ravi has 25% more cards than Amy. If Amy gives 25 cards to Ravi, she will have half of what Ravi has. How many cards does Amy have at first?

(4) 50 (2) 100 (3) 150 (4) 200

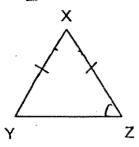
The figure below, not drawn to scale, is made up of a semicircle and 2 equal quarter circles. What is the perimeter of the figure? (Give your answer in terms of  $\pi$ .)



- (1)  $(6\pi + 6)$  cm
- (2)  $(12\pi + 12)$  cm
- (3)  $24\pi \text{ cm}$
- (4)  $36\pi \text{ cm}$

me:	•	)
ss:	Primary 6	· ·
esti Qu	ions 16 to 25 carry 1 mark each. Write your a uestions which require units, give your answer	nswers in the spaces provided. s in the units stated. (10 marks)
	Correct 53 495 to the nearest ten thousands.	- ·
	"	
	•	
		Ans:
	A stallholder earns \$1.75 for every 5 cups of 20 cups of tea sold?	tea sold. How much will he earn for
	-	·
	•	en n. e. spine street en
	·,······,	Ans: \$
	•	
_	Joseph had 60 picture cards. He gave away	$\frac{2}{5}$ of them to Shanti and 15 to
	Wenbin. How many picture cards had he lef	
	-	•
		••
		Ans:

19 Triangle XYZ is an isosceles triangle. If ∠YXZ is 52°, what is ∠XZY? (The figure is not drawn to scale.)



Ans:

A car can travel 32 km on 3 litres of petrol. How far can it travel on 9 litres of petrol?

Ans: ___km

21 15% of a sum of money is \$45. What is the sum of money?

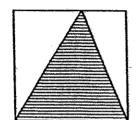
Ans: \$

The ratio of the length to the breadth of a rectangle is 2:1. If the length is 12 cm, find its perimeter.

Ans: _____cm

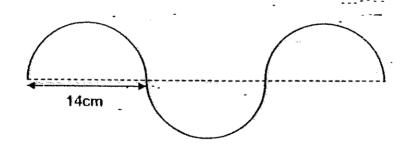
23 Find the value of  $\frac{4p+8}{6}$  when p=4.

The figure below is made up of a square and a triangle. The triangle has an area of 36 cm². Find the area of the square.



Ans:	·-	_cm²

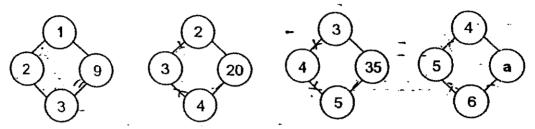
25 Find the length of the curve which is made up of 3 equal semicircles. (Take  $\pi = \frac{22}{7}$ )



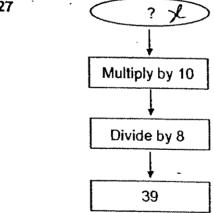
Ans: cm

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

26 Study the pattern as shown below and write down the value of a.



Ans:



What is the number you started with?

Ans:

A bag contains some red and yellow balls.  $\frac{3}{5}$  of the balls are red. There are 16 more red balls than yellow balls. How many balls are there?

•			-	•	• `	
A	n:	<b>S</b> :				

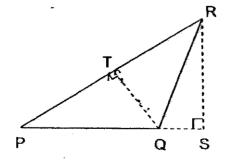
29 The table below shows the number of road accidents in a city from January to May.

Month	Jan	Feb	Mar	Apr	May
No. of road accidents	20	16	10	14	<i>(</i> 18
* •					

Express the number of accidents in May as a fraction of the total number of road accidents in the 5 months. Give your answer in the simplest form.

Ans:	

The triangle PQR shown below is not drawn to scale. PR = 12 cm, QT = 5 cm and PQ = 7 cm. Find the area of the triangle PQR.



Ans:	cm²

The average of three numbers is 2. If one of the numbers is changed to 4, the average of the three numbers now is 3. What is the original number that has been changed?

Ans:

32 Miss Wong types 168 words in 4 minutes. At this rate, how many words can she type in  $\frac{3}{5}$  h?

Ans: _____

There are 25 girls and 20 boys in the Mathematics Explorers Club. How many per cent more girls than boys are there in the club?

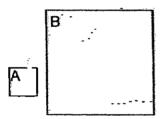
Ans: %



Leon had \$y in his wallet. He bought a shirt for \$22 and spent the rest of his money on 3 movie tickets. Find the price of 1 movie ticket in terms of y.

Ans: \$

The <u>length</u> of square B is four times the <u>length</u> of square A. What is the ratio of the area of square B to the area of square A?



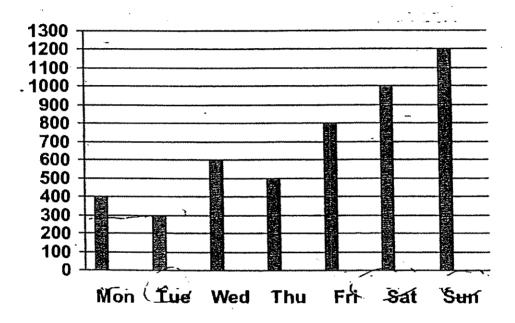
Ans:



For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

The graph below shows the number of visitors to the Singapore Zoological Gardens in a certain week.



(a) Find the total number of visitors on Tuesday and Saturday.

(b) Express the number of visitors on Wednesday as a percentage of the total number of visitors for the week.

Ans: (a) ____[1]

(b) [2]

Deming had \$ 100 more than Ali at first. After Deming spent \$ 120 and Ali received \$ 200, Ali had 3 times as much money as Deming. How much did Deming have at first?

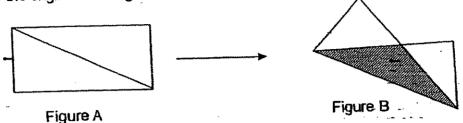
Ans
Ans

- The total mass of three boxes of books X, Y and Z is 16 kg. X is 0.7 kg heavier than Y and 0.25 kg heavier than Z.
  - (a) How much heavier is Z than Y?
  - (b) What is Y's mass?

Ans: (a) _____[1]

(b) [2]

A rectangle is folded diagonally as shown in Figure B.. As a result, Figure B is  $\frac{5}{8}$  of the area of Figure A. If the area of the shaded triangle is 12 cm², find the area of the original rectangle.



• •	• • • • • • • • • • • • • • • • • • • •		
•		Ans:	[3]
	•		and the same of th
			<del></del>
		٠٠ پېښار د پېښار د د	. <del></del>

Two candles of equal length are lit at the same time. Candle A takes 10 hours to burn down while Candle B takes 5 hours. Candle A will be exactly three times as long as Candle B after how many hours?

Ans: _____[3]



Mrs Lee bought some fruits.  $\frac{1}{3}$  of the fruits were oranges,  $\frac{1}{9}$  of them were apples and the rest were pears. The prices of the fruits were as shown below:

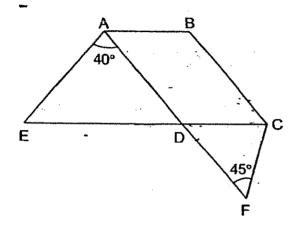
Oranges	40 ¢ each
Apples	30¢ each ⁻
Pears	60¢ each

Mrs Lee spent \$13.50 on the oranges and apples. How much did she spend on the pears?

Ans: _____[4]



- 42 In the diagram below, not drawn to scale, ABCD is a parallelogram. EDC and ADF are straight lines. AE = AD. Find
  - (a) ∠ABC
  - (b) ∠DCF



Ans: (a) _____[2]

(b) _____[2]

Packets of assorted candies were sold in 2 different sizes – standard and large. The large packet contained twice as many candies as the standard packet. In the standard packet, the ratio of the number of coconut candies to the number of strawberry candies was 4:5. In the large packet, the ratio of the number of coconut candies to the number of strawberry candies to the number of toffee candies was 1:2:3.

A family bought 1 standard and 1 large packet.

- (a) What was the ratio of the number of coconut candies to the number of strawberry candies to the number of toffee candies?
- (b) The family ate 21 candies. As a result, the ratio of the number of coconut candies to the number of strawberry candies to the number of toffee candies became 2:3:3. How many candies were left?

Ans: (a) _____[2]

(b) [2]



44 Look at the patterns below. They are made up of shaded and plain tiles.







Pattern 1

Pattern 2

Pattem 3

(a) Complete Pattern 4 in the table.

. Pattern	Number of shaded tiles	Number of plain tiles
. 1 .	. 8	· 1
2	12 ्	4
3	16 ·	9
4		

(b) What is the total number of shaded and plain tiles in Pattern 9?

√Ans: (a) _____, ___[2]

(b)_____[2]



Edward, Felix and George took part in a 60-metre race. When Edward crossed the finish line, he was ahead of Felix by 10 m and ahead of George by 20 m. Felix and George continued to race to the finish line without changing their speed. How far was George from the finish line when Felix completed the race?

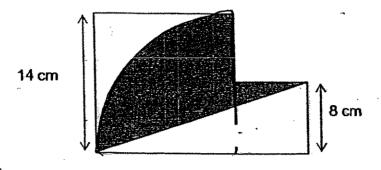
Ans: [4]



Last Monday morning Edward walked from home to school. For the first 2 minutes, he was walking at an average speed of 40 m/min. When he realised that he was going to be late by 3 minutes, he quickly increased his speed by 10 m/min. As a result, he was early by 1 minute. Find the distance between his — home and school.

Ans: [5

The figure shows two squares of side 8 cm and 14 cm respectively. Find the area of the shaded part. (Take  $\pi = \frac{22}{7}$ )



Ans:_____[5



Ann, Ian and Kelvin went shopping together. They brought a total of \$580 with them. Ann spent 20% of her money, Ian spent \$30 and Kelvin spent twice as much as Ann. At the end, they had \$370 left. How much money did Ian and Kelvin have together at first?

Ans: _____[5]

5

~~END OF PAPER~~

Please check your work carefully.

- 22 -



AI TONG PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

1. 2. 32) 1512 3. 33)25% 34)\$(y-22) 35)116:1 36) a) 300+1000=1300 9. b) 600/4800x100=12.5% 10.4 11.2 37)\$20-\$100=\$120 12.2 \$200+\$20=\$220<del>-}</del>2u* 13. \$220 = 2x3=\$330 -> Ali 14.2 \$330-\$200+\$100=\$230 15.2 16.50000 38)a)0.7kg-0.25kg=0.45kg 17. \$7 b)  $(16kg-0.7kg-0.45kg) \div$ 18.21 19.64° 20.96km 9) A-B=12cm2 21. \$300 22.36cm 12cm2÷3x8=32cm2 23.4 24.72cm2 25.66cm \$13.50 ÷ \$1.50 = \$9 26.54 27.31.2 9x5 = 4528.80 \$45x**0**.60=\$27 29.3/13

**30.** 30cm2

```
42) a) (180° -40°) ÷ z=70° (∠DEA)

180° -70° =110°

180° -40° =70°

(360° -70° ×2) ÷ 2=110°

b) 180° -70° -45° =65°
```

- 131a)7:1**7:**94 101<u>1</u>68
- 44) a) 20, 16. b) 121
- 45) G. F. E. S. 4:5:6
  60 A=15
  60 5=12
  60 6=10
  G-4m/s
  15-12=3
- 46) 40m/min: 5.0m/min =50:40 ≈ 5:4 1u→3+1=4min Time taken at 40m/min =5x4+2=22min Dist→40x22=880m
- 47) 14+8=22 22x8x ½ =88 22/7x14x14x ¾ =154 14x14-154=42 196+8x8=260 260-88-42=130cm2



# 新加坡福建会馆属下五校小六统一考试 道南·爱同·崇福·南侨·光华

### SINGAPORE HOKKIEN HUAY KUAN

5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATION TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA

# 2007 数学 MATHEMATICS BOOKLET A

Total Time For Booklets A and B: 2 hour 15 minutes

#### **INSTRUCTIONS TO CANDIDATES**

√	Do not open	this booklet until	you are told to do so.
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√ Follow all instructions carefully.

 $\sqrt{}$  Answer all questions.

This booklet consists of 8 printed pages.

School		
Name	•	 
Class	•	
Date	: 28 August 2007	

TOTAL	20
-------	----

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

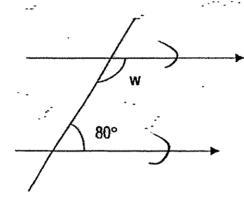
(1) 180

(2) 300

(3) 1800

(**#**) 3000

2)



∠w is _____

(J) 20°

(2) 80°

(2) 100°

(4) 180°

1

3) Mrs Tan bought 3 ducks weighing 1.3 kg, 1.3 kg and 2.2 kg. What was the average mass of the ducks?

(x) 1.3 kg (2) 1.6 kg (3) 2.4 kg

4.8 kg

in the factory is _____

4) There are  $\frac{2}{5}$  as many female workers as male workers in a factory. The ratio of the number of male workers to the number of female workers

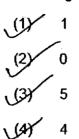
(b) 5:2 (2) 2:5 (3) 3:5 (4) 5:3

5) Paul had \$2a. He spent \$2 on a toy. How much money had he left?

(2) \$4a (3) \$(a-1)

(4) \$(2a-2)

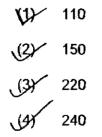
6) Add 44:2 and 0-81. The digit in the tenths place is _____

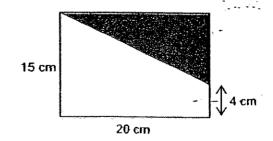


7) Which of the following has the largest value?

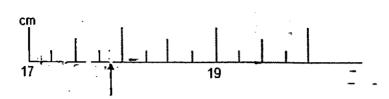
$$\begin{array}{ccc}
\cancel{3} & \frac{7}{8} \\
\cancel{2} & \frac{9}{10} \\
\cancel{3} & \frac{11}{12}
\end{array}$$

8) In the rectangle below, the area of the shaded triangle is _____ cm².

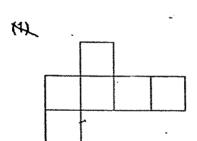


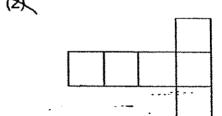


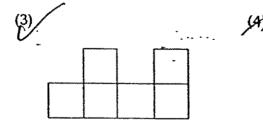
9) The figure below shows part of a measuring tape.
What is the best estimate of the reading shown by the arrow?

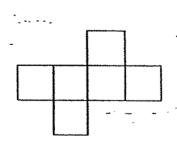


- (N) 18.5 cm
- (2) 18.3 cm
- (3) 17.8 cm
- (4) 17.5 cm
- 10) Which of the following nets when folded does not form a cube?









11)  $78 \times 62 + 10 \times 62 =$   $\times 62 - 62$ 

The missing number in the box is _____.

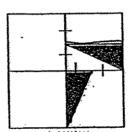
(1)/ 72

(2) 87

(3) 88

(4) 89

12) The figure is made up of 4 squares. What fraction of the figure is shaded?



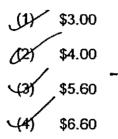
 $\sqrt{1}$ 

 $\sqrt{2}$   $\frac{1}{8}$ 

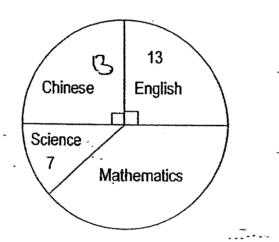
 $\sqrt{3}$   $\frac{6}{7}$ 

JAY 7/8

13) Siew Lee paid \$56 for 4 identical belts and 6 identical hair clips. Each belt cost \$4 more than each hair clip. Find the cost of one hair clip.



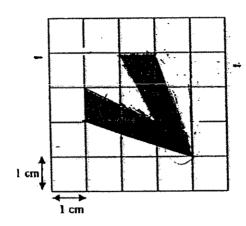
14) The pie chart below shows the favourite subjects of pupils in a class.



Mathematics is the favourite subject of _____ pupils.

98	19
(2)	20
J85	26
(4)	33

15) What is the area of the shaded figure?



(1) 6 cm²

(2) 5 cm²

(3).....3 cm²

(4) 4 cm²



## 新加坡福建会馆属下五校小六统一考试 道南·爱同·崇福·南侨·光华

#### SINGAPORE HOKKIEN HUAY KUAN

# 5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATION TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA

# 数学 MATHEMATICS BOOKLET B

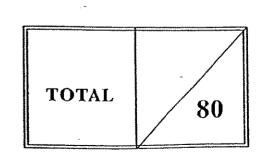
Total Time For Booklets A and B: 2 hour 15 minutes

#### **INSTRUCTIONS TO CANDIDATES**

- $\sqrt{}$  Do not open this booklet until you are told to do so.
- √ Follow all instructions carefully.
- √ Answer all questions.

This booklet consists of 20 printed pages.

School			
Name		(	
Class	:		
Date	· 28 August 2007		



Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

16) Find the value of  $50 \div 5 \times 2$ .

Ans:

17) Express  $3\frac{1}{4}$  km in metres.

Ans: _____m

18) Find the value of  $\frac{1}{2} \div 2$ .

Ans:

19)	A carton of eggs cost \$2.50. Mrs Yong paid \$10 for some cartons of e	eaas.
	How many cartons of eggs did she buy?	33-

Ans:	

20)	Joseph mixed 1 litre of orange syrup with 3 litres of water. He	poured the mixture
		<i>ml</i> of (mixture)

	Āns:	ж. ж.	m	
	, successor			

21) Mrs Lee gave a Mathematics test to her class of 20 pupils.

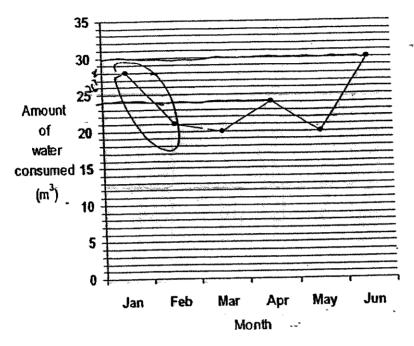
She recorded the number of questions they answered correctly in the table below.

Number of questions answered correctly	Number of pupils
8	/10
6	10/

Find the average number of questions the pupils answered correctly.

Ans:	
------	--

22) The line graph below shows the amount of water consumed by Rajah's family from January to June.

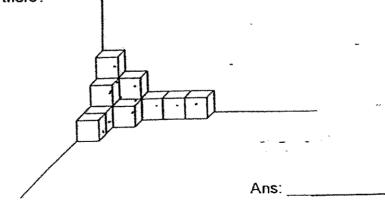


What was the largest decrease in water consumption?

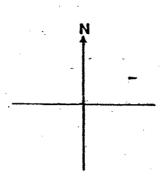
	*,***		•	•
Ans:		n	3	

Cubes of the same size are stacked in the corner of a box as shown.

How many cubes are there?



24) John is facing South now.
Which direction will he face if he makes a 225° anti-clockwise turn?



Ans:

25) Tom jogged 2 km i/h 10 minutes. What was his average speed in km/h?

Ans: ____km/l

Total mark for questions 16 to 25

,	
	10

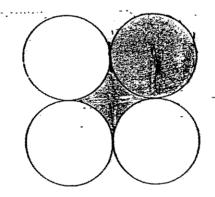
Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [20 marks]

26) What is the next number in this sequence?

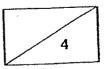
2, 6, 12, 20, 30, ____, 56

Ans:	
71115.	 

27) The figure is made up of 4 identical circles of radius 7 cm. Find the shaded area. (Take  $\pi = \frac{22}{7}$ )

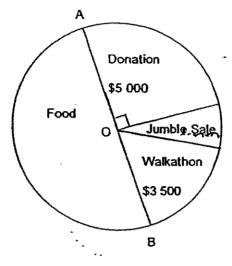


		•
Ans:	cm	4



28)

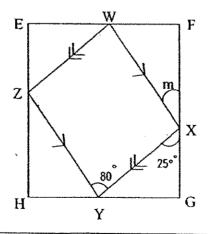
Types of Activities in a Fund-raising Project



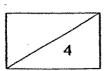
In the pie chart above, half of the money collected was from the sales of food. What percentage of the amount collected was from the jumble sale?

Ans:	9	4	

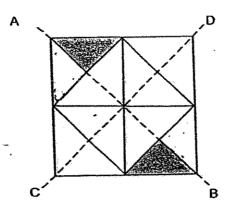
29) In the following figure, not drawn to scale, EFGH is a rectangle and WXYZ is a parallelogram. Find  $\angle$ m.



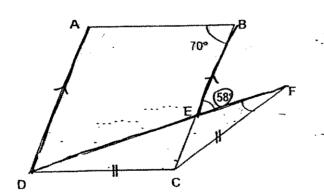
Ans:



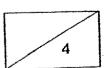
30) The square below consists of 16 identical triangles. Shade 2 more triangles to complete the figure which has the dotted lines AB and CD as lines of symmetry.



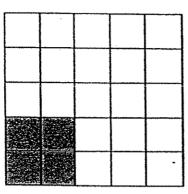
31) The figure below is not drawn to scale. ABCD is a parallelogram and DFC is an isosceles triangle. DEF is a straight line. Find ∠DFC.



Ans:



32) How many more squares should be shaded such that the ratio of the number of shaded squares to the number of unshaded squares is 2:3?



Ans: ____

A rectangle is 10 cm long and 8 cm wide. Its area is decreased by 20% such that the new figure is a square. What is the area of this square?

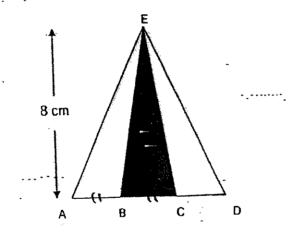
Ans: ____cm

4

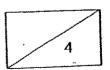
When Ravin was 12 years old, his father was 42 years old. His father is twice as old as he is now. How old is his father (now?)

Ans:	years
------	-------

35) In the triangle ADE below, AD is 6 cm. AB = BC = CD. Find the shaded area.



Ans:	· cm ²
------	-------------------



For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. [ 50 marks ]

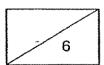
The entrance fee to an amusement park was \$4.50 for an adult and \$2.50 for a child. Mr Lee took some children to the park and paid a total of \$19.50 as entrance fee. How many children did he take to the park?

Ans:	-	_[3]	

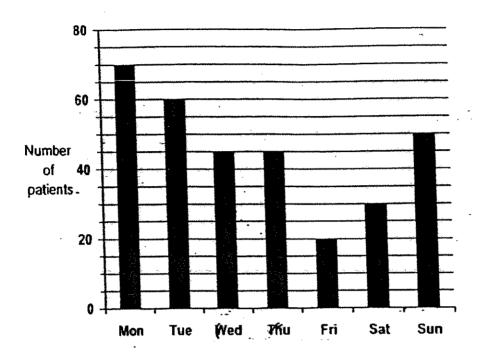
The rectangle is divided into 4 parts. Each part has a different area. Find the area of X.

8 cm ²	10 cm ²
· <b>X</b>	15 cm ²

			-	
Ans:	 ****	-	•	[3]
Allo.	. *			13



38) The graph below shows the number of patients who visited a clinic during a certain week.

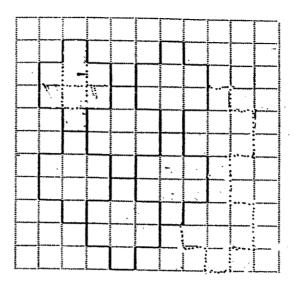


- (a) Find the total number of patients who visited the clinic on Wednesday and Thursday:
- (b) There were 40% fewer patients on Saturday than on _____

Ans: (a) ______[1]

(b) _____[2]

- 39) (a) Shade the unit shape in this tessellation. [1].
  - (b) Extend this tessellation with two more unit shapes. [2]



40) A bottle of cooking oil weighs 2 kg. A hawker uses 8 such bottles in 4 days. If he uses the same amount of oil every day, how many 5-kg tins of cooking oil will he use in 10 days?

Ans:______



41) Ali had y stamps. His father gave him 20 more stamps. He then shared all his stamps equally with his 2 brothers.

(a) How many stamps did each boy get in terms of y?

(b) If y = 28, how many stamps did each boy get?

Ans: (a) _____[1]

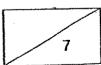
(b):______[2]

Mrs Lim bought a total of 120 apples and oranges in the ratio of 3:5.

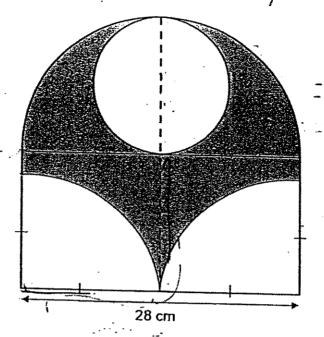
After she gave away an equal number of each type of fruits, the ratio of the number of apples to the number of oranges left is 3:8.

How many apples does she have now?

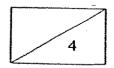
Ans: _____[4



43) The figure below is made up of a semi-circle and a rectangle. Find the area of the (urlshaded region. (Take  $\pi = \frac{22}{7}$ )



Ans: ____[4]



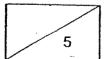
Cynthia has 32 English and Chinese books.  $\frac{4}{-5}$  of the English books and  $\frac{3}{4}$  of the Chinese books are fiction books. She has a total of 25 fiction books. How many English fiction books are there?

Ans: _____[4]

- An empty tank was filled with water from two taps. Tap A could fill the tank completely in 2 hours and Tap B could fill it completely in 6 hours.

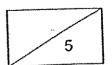
  Tap A was turned on first and Tap B was turned on 20 minutes later.
  - (a) What fraction of the tank was filled with water after 20 minutes?
  - (b) How long did it take to fill the rest of the tank completely with water?

Ans: (a)	
(b)	[4
- ·	* '

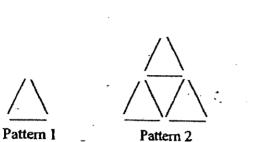


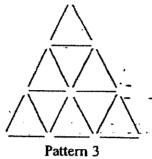
At 8.30 a.m., Tom drove from Town P to Town Q at an average speed of 80 km/h. After driving  $\frac{2}{5}$  of the journey for 4 hours, he passed Paul who was travelling along the same road in the opposite direction. Paul was travelling at a speed which was 20 km/h slower than Tom. At what time did Paul Leave Town  $\frac{Q}{2}$ 

Ans: [5]



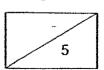
47) Ahmad formed the following patterns using toothpicks





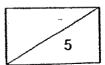
- (a) How many toothpicks would Ahmad need to form Pattern 4?
- (b) If the last pattern formed by Ahmad had 165 toothpicks, what was the pattern number?

Ans:	(a)	r	21
	(-)		<u>-</u> _]



48) Siti had some red and blue marbles. 80% of the marbles were red. After she bought another 63 red marbles and 46 blue marbles, 75% of the marbles were red. Find the total number of marbles she had at first.

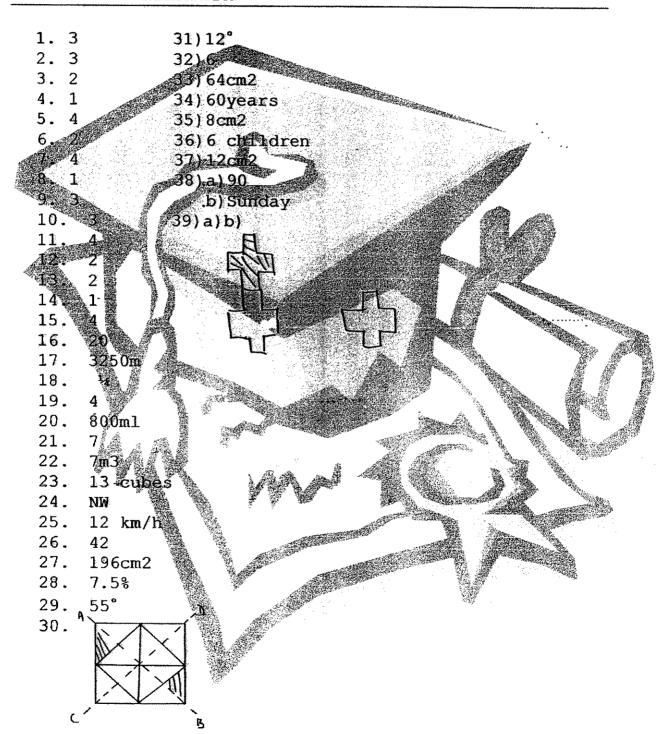
Ans: _____[5]



End-of-Paper



HOKKIEN PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 PRELIMINARY EXAMINATION



40) 
$$(8x2kg) \div 4=4kg$$
 1 day  $10x4=40$   $40 \div 5=8$ 

- 41) a)  $(\underline{y+20})$  stamps 3 b) 16stamps
- 42)18
- 43) 22/7x7x7=154cm2 22/7x14x14x1/2=308cm2 154cm2+308cm2=462cm2
  - 44)16
  - 45) a) 1/6 b) 75min
  - 46) 4.30a.m.
- 47) a) 30 b) 10
  - 48) 375



## HENRY PARK PRIMARY SCHOOL P6 SEMESTRAL EXAMINATION ONE 2007 MATHEMATICS BOOKLET A

Name:		-		( )	Class: P6_		er e
			·		-		
15 Questions					٠		
20 Marks	•	•	**				******
Total Time for	Booklets A a	nd B: 2 h 1	5 min			·	
	•		- -	e e e e e e e e e e e e e e e e e e e	-	· * * * *	

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
READ AND FOLLOW INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

.)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1,2,3 or 4). Shade the correct ovals on the Optical Answer Sheet. (20 marks)

- (1) 4899
- (2) 4 950
- (3) 5 050
- (4) 5 099

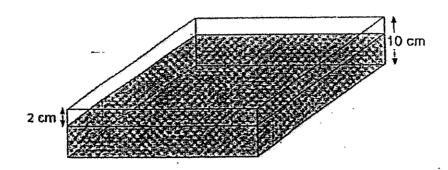
2. Find the value of  $24 + 36 \div 3 \times 6 - 2$ .

- (1) 24
- (2) 94
- (3) 118
- (4) 214

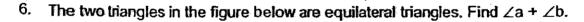
3. Express 135 minutes in hours and minutes.

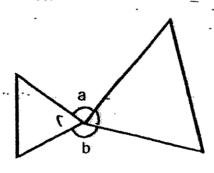
- (1) 1 h 15 min
- (2) . 1 h 35 min
- (3) 2 h 15 min
- (4) 13 h 5 min

4. The tank below contains 4200 cm³ of water. What is the base area of the tank?



- (1) 350 cm²
- (2)  $420 \text{ cm}^2$ .
- (3) 525 cm²
- (4) 2100 cm²
- 5. 718 ml is equivalent to _____1.
  - (1) 78
  - (2) 7.8
  - (3) 7.08
  - (4) 7.008

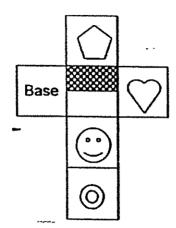




- (1) 60°
- (2) 120°
- (3) 240°
- (4) 300°

3

7. The diagram shows the net of a cube with its base surface indicated as shown below.



Which one of the following symbols is on the top?

(1)



(2)



(3)



(4)



8. A car travels at a speed of 66 km/h. How far can it travel in 5  $\frac{1}{2}$  hours?

- (1) 12 km
- (2) 165 km
- (3) 330 km
- (4) 363 km

9.



Jessica bought the dress as shown in the advertisement above. If she still had to pay a GST of 5% after the discount, how much did she pay for the dress?

- (1) \$48
- (2) \$50.40
- (3) \$51
- (4) \$63

10. Farhan and Kenneth shared 240 marbles in the ratio of 4: 11 respectively. How many marbles must Kenneth give Farhan so that the two boys would have the same number of marbles?

- (1) 56
  - (2) 88
  - (3) 112
  - (4) 120

)

- 11. Out of 400 P6 pupils in a school, 80 pupils are members of uniformed groups, 200 pupils are on sports teams and 30 pupils participate in both types of activity. How many pupils are not involved in uniformed groups and sports?
  - (1) 90
  - (2) 120
  - (3) 150
  - (4) 250
- 12. The table below shows the distribution of children per household in an estate.

No. of Children	. Household
0	30
1	80
2	110
<b>3</b>	20
4	10

What percentage of the children in the estate are from households with more than 2 children?

- (1) 12%
- (2) 25%
- (3) 56%
- (4) 80%

)

)

(

13. The table below shows the postage rates for sending parcels from Singapore to Australia.

POSTAGE RATE	S
First 3 kg	\$30
Additional 1 kg or part thereof	\$9

If Razif paid \$75 for sending a parcel to Australia, what could be the maximum mass of his parcel be?

- (1) 3 kg
- (2) 5 kg
- (3) 8 kg
- (4) 15 kg
- 14. William and Grace had \$87. Grace and Siti had \$115. If William had  $\frac{3}{7}$  of Siti's amount, how much did Grace have?
  - (1) \$21
  - (2) \$49
  - (3) \$66
  - .(4) . \$132
- 15. Jenny had an equal number of 10-cent coins and 50-cent coins. If the total value of all her coins was \$24, how many coins did she have altogether?
  - (1) 40

______

- (2) 60
- (3) 80
- (4) 120



## HENRY PARK PRIMARY SCHOOL P6 SEMESTRAL EXAMINATION ONE 2007 MATHEMATICS BOOKLET B (PART 1)

Name:	<u> </u>		) Class: P6	
		· ···	<u>,</u>	
	•:			
20 Questions		••	·	
30 Marks			***************************************	
Total Time for	Booklets A and I	3: 2 h 15 min		

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Questions 16 to 25 carry 1 mark each. Write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

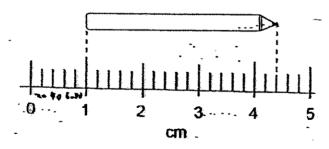
16. Find the sum of 25 tens, 37 tenths and 12 hundredths.

Ans :_____

17. In a two-digit number, the digit in the tens place is three times the digit in the ones place. When the digits are interchanged, the number is decreased by 54. What is this number?

Ans : _____

18. Find the length of the pencil shown below.

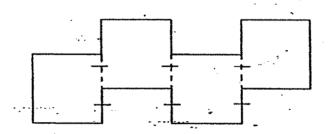


Ans: cm

19. Kim is 10 years 9 months old now. What will be her age in 11 months' time?

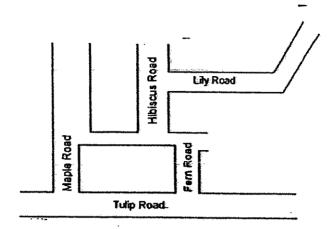
Ans: ____years____months

20. The figure is made up of 4 identical squares each of side 4 cm. Find the perimeter of the figure.



Ans:_____cm

The diagram below shows a map of Jenny's neighbourhood.
 Name one pair of roads perpendicular to each other in the map.



Ans:	-	Road
and		Road -

22. The average of 4 numbers is 9. The first two numbers are the same: If the other two numbers are 6 and 8, find the first two numbers.

Ans:

23. A grandfather clock-takes 12 seconds to strike 5 times, from the first to the last stroke. How long will it take to strike 10 times?

Ańs:_____s

24. The ratio of the number of girls to the number of boys studying in a tuition centre was 4:5. After a group of boys had joined the centre, 60% of the new total number of children were boys. What was the percentage increase in the number of boys?

25. Simplify 7p - 4 - 2p + 9......

Ane ·

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

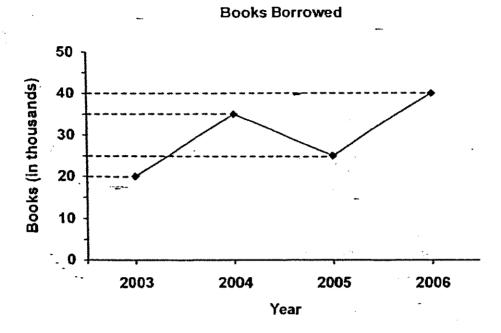
26. An example of three consecutive odd numbers is 1, 3 and 5. The sum of five other consecutive odd numbers is 85. What is the largest number of these five numbers?

Ans:_____

27. A solid is made up of 4 identical cubes. The volume of the solid is 256 cm³. What is the length of each side of the cube?

Ans : _____ cm

28. The line graph below shows the number of books borrowed from a school library from 2003 to 2006.

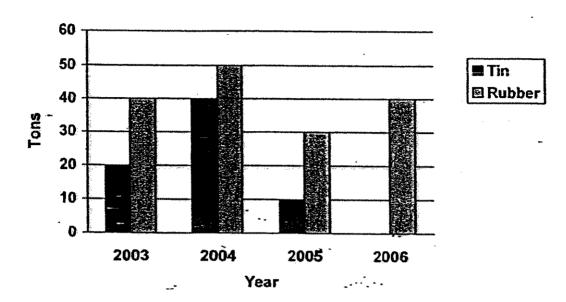


- a) What was the percentage change in the number of books borrowed between 2003 and 2005?
- b) How many percent more books were borrowed in 2006 than 2005?

Ans : (a)	 	%
(b)		-0/

29. The bar graph below shows the amount of tin and rubber production in the state of Jorak over four years. The amount of tin produced in 2006 is not shown in the graph yet.

Tin and Rubber Production



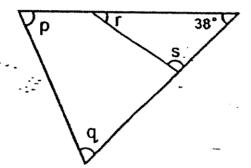
It was later calculated that the total amount of tin produced from 2003 to 2006 was 62.5% of the total amount of rubber produced over the same period. How much tin was produced in 2006?

Ans:____tons

- _30. Shawn left his house for a ride by taking the following route:
- Starting from his house, West 4 km, North 2 km, West 5 km, North 3 km, East 9 km and finally South 2 km. Then he stopped to take a break. How far from his house was Shawn when he stopped to take a break?

200	٠		l
₹ns	٠	•	km

31. Find the sum of  $\angle p$ ,  $\angle q$ ,  $\angle r$  and  $\angle s$ .

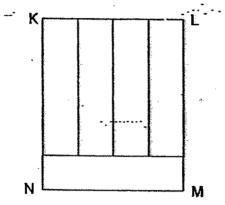


Ans : ______

32. The total price of 4 apples and 6 watermelons is the same as that of 9 apples and 5 watermelons.—Each watermelon costs \$2 more than each apple. How much does each watermelon cost?

Ans	*	\$ 	 		

33. The figure KLMN is formed by 5 identical rectangles as shown below. If the area of KLMN is  $20 \text{cm}^2$ , find the perimeter of one of the rectangles.



A		
Ans	*	 CIT

34. Mr Yuan took a coach bus from Singapore to Kuala Lumpur. The bus left Singapore at 9.30 a.m. sharp and was expected to reach the bus terminal at Kuala Lumpur 5 hours later. However, the bus ride was delayed by 1 h 40 min due to traffic congestion. What time did Mr Yuan reach the bus terminal at Kuala Lumpur?

35. A faulty watch which gains 12 minutes for every normal hour is showing the correct time at 3 p.m.. What will the actual time be when the watch shows 4 p.m. that afternoon?

Ans : _______p.m

. . .



## HENRY PARK PRIMARY SCHOOL P6 SEMESTRAL EXAMINATION ONE 2007 MATHEMATICS BOOKLET B (PART 2)

иате:	· · · · · · · · · · · · · · · · · · ·		į	( )	Class: P6	
		·				
			•			
	**	•	4 + * * + * + * + * + * + * + * + * + *			

13 Questions

50 Marks

Total Time for Booklets A and B: 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
READ AND FOLLOW INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

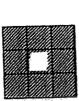
For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the space provided.

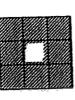
The number of marks available is shown in [ ] at the end of each question or partquestion. (50 marks)

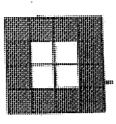
36. A rectangular container is 33 cm by 22 cm by 20 cm. Find the maximum number of 5-cm cubes that can be placed into the container.

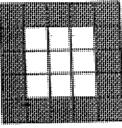
Ans : ______ [3]

37. Look at the patterns shown below. They are made up of 2-cm coloured and plain









Pattern 1

Pattern 2

Pattern 3

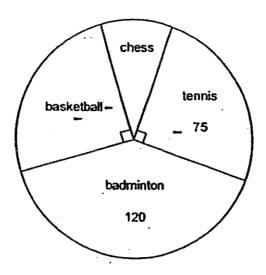
Complete Pattern 5 in the table below.

Pattern	Number of coloured tiles	Total Area of coloured tiles
1	8	32 cm²
2	12	48 cm²
3	16	64 cm²
5	(a)	(b)

Which pattern number will have 176 cm² as the total area of coloured tiles? (c)

Ans: (a) _____[1]

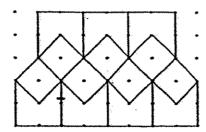
38. The pie chart below shows the number of members of four co-curricular activities in a school.



- (a) Find the ratio of the number of the chess club members to the number of the tennis club members. Express your answer in the lowest term.
- (b) Express the number of badminton members as a fraction of the number of basketball members in the lowest term.

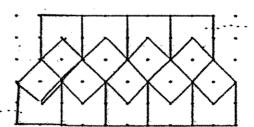
Ans:	(a)	 [3]
	<b>/</b> b\	F41

39. The pattern in the box below shows part of a tessellation.



(a) Draw a unit shape of the tessellation in the grids below. [1]

- (b) Draw a line of symmetry to the unit shape that you have drawn in the grids above. [1]
- (c) Extend the tessellation by drawing two more unit shapes in the grids provided below. [1]



40. Alex, Ben and Darren planted 520 seeds. For every 7 seeds Alex planted, Ben planted 4 seeds. And for every 3 seeds Ben planted, Darren planted 8 seeds. How many seeds did Darren plant?

Ans : _____ [3

Mr Mohan is 16k years old. He is now 4 times as old as his son. How old will he be when his son is 25 years old?

Ans : _____ [3

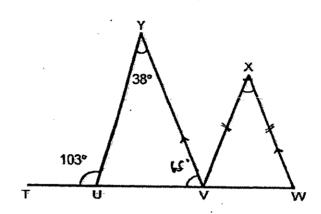
- 42. Betty wants to distribute a packet of M & M's chocolates to her friends. If she gives 4 chocolates to each of them, she will have 32 chocolates left. If she gives them 8 chocolates each, she will be short of 136 chocolates.
  - (a) How many friends does Betty have?
  - (b) How many chocolates are there in the packet?

Ans:	(a)	[3]
	(b)	[4]

43. The owners of three bakeries compared their sales at the end of one day. Bakery A made  $\frac{2}{3}$  as much money as bakeries B and C combined. Bakery B made  $\frac{3}{5}$  as much money as bakeries A and C combined. If bakery B made \$720 more than bakery C, how much did bakery A make?

Ans:_____[4

- 44. The figure below is not drawn to scale. TUVW is a straight line and VY is parallel to WX.
  - (a) Find ∠ UVY.
  - (b) Find ∠ VXW.

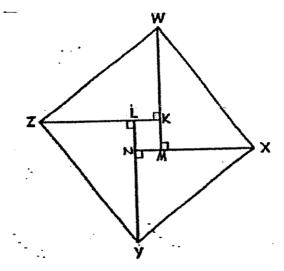


Ans : ∠UVY = [1]

- 45. Towns X and Town Y were 350 km apart. At 11.30 a.m., a van started travelling from Town X towards Town-Y at 80 km/h. Two hours later, a truck started travelling from Town Y towards Town X at 54 km/h.
  - (a) How far from Town X was the van at 3.30 p.m.?
  - (b) What was the distance between the car and the forty at 3.30 p.m.?

Ans:	(a)		[2]
	<b>(b)</b>	-	to

46. The square WXYZ is made up of 4 identical triangles and a small square LKMN. LY = 8 cm and LZ = 6 cm. Find the perimeter of the square WXYZ.



Ans: [5]

47. In Hall A, 30% of the 800 people were men. In Hall B, 40% of the 400 people were women and children. After some of the people in both halls had switched hall, 25%-of the people in Hall A and 75% of those in Hall B were men. How many people were there in Hall B after the change?

Ans:_____[5]

48. Wendy bought CDs at \$3 each and sold them at \$8 each. To promote sales, all customers who bought two CDs were given one free CD. After she had sold all the CDs, Wendy made a gain of \$1235 despite giving away 150 CDs to her customers. How many of Wendy's customers bought only one CD?

Ans : _____ [5

End - of - Paper

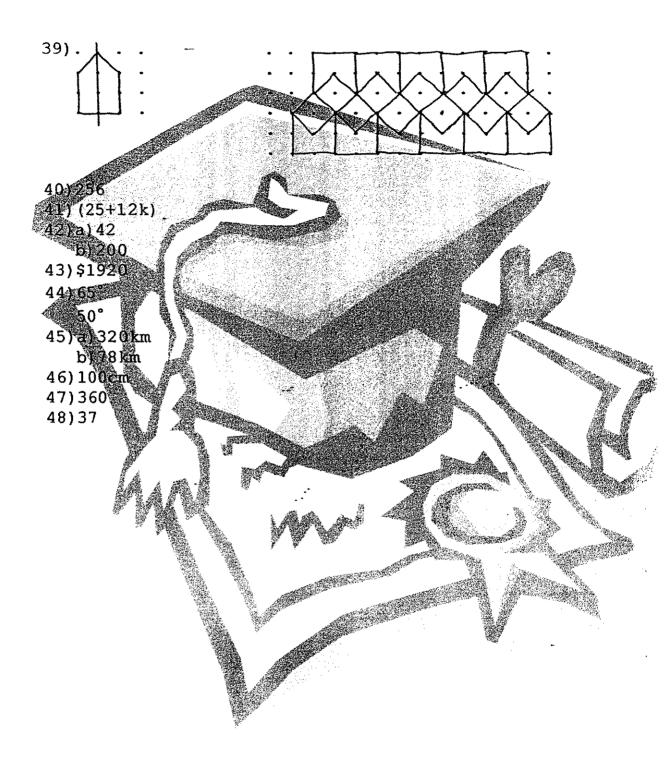
Setters : Mdm Zuraidah Mr Lim Ming Liang

31



MENRY PARK PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

200000	STEENT (I)	
1.2	31) 284	
2.2	321\$2.50	
3.3	33) 10cm	
4.3	34)4.10pm	
5.4	35)3.50p.m	
<b>493</b>	<b>#3</b> 6) 96	
<i>₹₩</i> 7.2		
8.4	b) 30cm2	
9.2 10-1	, c)10th	
10.5 1 /	38)a)2:5	
11.33	b) 1 3/5; /diac.	
<b>13.</b> ≥ 3 € €		
12: 2 13. 3 4. 3 1. 3		
<b>35.</b> 3		
1 <b>6. 2</b> 53.82		
17 937		
18.23.4cm		
19. II yea	rs 8 mil _{le:}	
20. 52 cm		
	us Rd and Lily Rd	
22 <i>-</i> 11		
23. 24		
24. 20%		
25. 5p+5		
26. 21		
27. 4cm		
28. a)25%	b) 60%	
29. 30 tor	Sol	
30. 3km		
	****	





# HENRY PARK PRIMARY SCHOOL P6 PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET A

Name:		. )	Class: P6	· ·
				and the second of the second o
professional and a second				
15 Questions				
20 Marks				
Total Time for Booklets A an	d B: 2 h 15 min	1		
•				
	1			

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

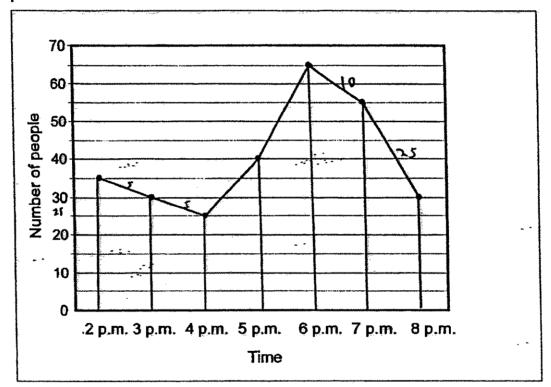
READ AND FOLLOW INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals on the Optical Answer Sheet. (20 marks)

- 1. What is the value of the digit 5 in 238.154?
  - (1) 5 tens
  - (2) 5 tenths
  - (3) 5 hundredths
  - (4) 5 thousandths
- 2. Express  $6\frac{1}{25}$  kg in g.
  - (1) 640 g
  - (2) 6 004 g
  - (3) 6 040 g
  - (4) 6 400 g
- 3. Express 40 min as a fraction of  $1\frac{1}{5}$  h.
  - (1)  $\frac{5}{9}$
  - (2)  $\frac{1}{2}$
  - (3)  $\frac{1}{3}$
  - (4)  $\frac{3}{400}$
- 4. The number of pupils in a school is about 2500. What could be the actual number of pupils in the school if it has been rounded off to the nearest hundred?
  - (1) 2 449
  - (2) 2 495
  - (3) 2 551
  - (4) 2 599

- 5. A tank holds 2 400 ml of water when it is  $\frac{5}{8}$  full. How many millilitres of water will it hold if it is  $\frac{3}{4}$  full?
  - (1)-1 440 mi
  - (2) 1 500 ml
  - (3) 1 800 mi
  - (4) 2 880 ml
- 6. The graph below shows the number of people in a supermarket from 2 p.m. to 8 p.m.



Which one of the following intervals shows the biggest decrease in the number of people in the supermarket?

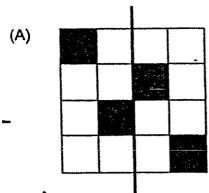
- (1) 2 p.m. to 3 p.m.
- (2) 3 p.m. to 4 p.m.
- (3) 6 p.m. to 7 p.m.
- (4) 7 p.m. to 8 p.m. ( )

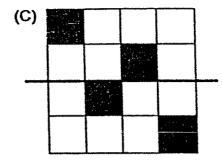
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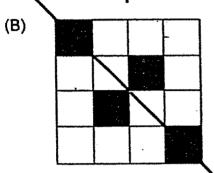
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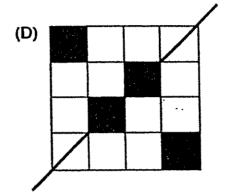
)

7. Which of the following figures shows a correct line of symmetry?





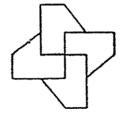




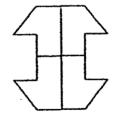
- (1) A and B
- (2) B and C
- (3) B and D
- (4) C and D

8. Which one of the following can be tessellated?

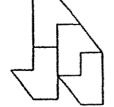




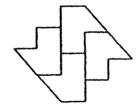








(4)



3

-	more	cost of a ruler is \$1.50. The total cost of two identical sharper is than the ruler. What is the ratio of the cost of the ruler to pener?	ers is 5 that of t	0¢ the
	(1)	6:1		
	(2)	6:7		
	(3)	3:2		
	(4)	3:4	(	)
10.	Wh	nat is the value of (12 + 24) ÷ 3 x 6 – 2 x 5?		
	(1)	10		
	(2)	50		•
	(3)	- <b>62</b>		
	(4)	350	(	)
11.	. A 6	cyclist travelled 600 m in 3 minutes. What was his average speed?	ı	
	(1)	12 km/h		
	(2)	18 km/h		
	(3)	20 km/h	<i>.</i> -	
	(4)		(	)
12		ere were 40 passengers in a ferry. 24 of them were male passer any percent more male than female passengers were in the ferry?	ngers. I	dow
	(1)	60%		
	(2)	50%		
	(3)	40%		
	(4)	20%	(	Í

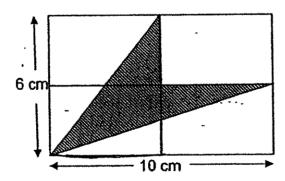
13. Liza ate  $\frac{1}{3}$  of a cake and gave away  $\frac{1}{8}$  of the remainder. What is the fraction of the cake left?

- (1)  $\frac{5}{24}$
- (2)  $\frac{19}{24}$
- (3)  $\frac{1}{12}$
- (4)  $\frac{7}{12}$

14. The average cost of the books in a box was \$15 at first. When a book which costs \$27 is placed in the box, the average cost becomes \$18. How many books are in the box now?

- (1) 3
- (2) 4
- (3) 6
- (4) 9

15. The figure is made up of 4 identical rectangles. Find the area of the shaded part.



- (1) 45 cm²
- (2) 30 cm²
- (3) 20 cm²
- (4) 15 cm²

(

)

(



# HENRY PARK PRIMARY SCHOOL P6 PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET B (PART 1)

Name:(	) Class: P6
20 Questions	
30 Marks	
Total Time for Booklets A and B: 2 h 15 min	
Total Time for booklets A and B; Z n 15 mjn	

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Questions 16 to 25 carry 1 mark each. Write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

16. What fraction of the figure below is shaded?

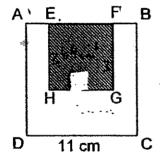


Ans:_____

17. Express  $2\frac{8}{9}$  as a decimal rounded off to 1 decimal place.

_		
Ans	٠	
MIG	٠	

18. In the figure, ABCD and EFGH are squares. The area of EFGH is 64 cm². Find the perimeter of the unshaded region.

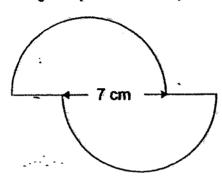


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3115	La I

19. A rectangular tank, 50 cm long and 40 cm wide, is half-filled with water. Another 20 litres of water is needed to fill the tank to the brim. What is the height of the tank?

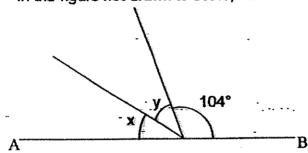
Ans:____cm

20. The figure is made up of 2 semi-circles of diameter 10 cm. Find the perimeter of the figure. (Take  $\pi = 3.14$ )



Ans:_____cm

21. In the figure not drawn to scale, AB is a straight line and  $\angle x = \angle y$ . Find  $\angle x$ .

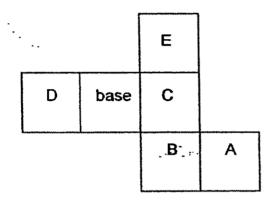


Ans : _____

22. A printer can print 200 cards in 8 minutes. At this rate, how many cards can it print in  $\frac{1}{4}$  hour?

Ans : _____

23. The figure below is a net of a cube. Which one of the faces is the top of the cube?



Ans:

24. If 30% of a number is 135; what is the number?

Ans:

25. Joel is *k* years older than his brother. If his brother is 5 years old, how old is Joel?

Ans :______years old

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

26. 8 packets of French fries cost \$20. What is the maximum number of packets of French fries I can buy with \$32?

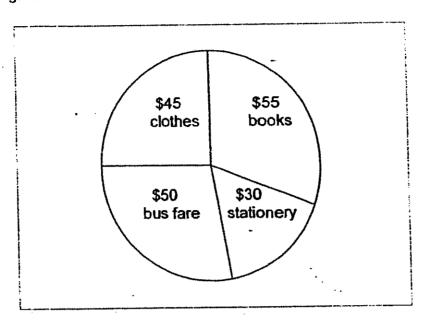
Ans	:	***
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27. The square has a diagonal of length 12 cm. Find its area.



Ans:	2
WIS .	cm²

28. The pie chart below shows how Ming spent a month's allowance his parents had given him.

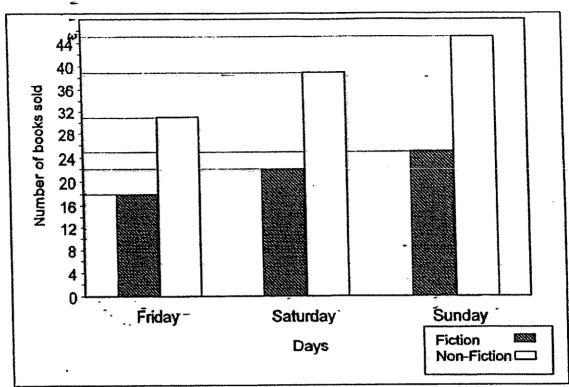


What fraction of his monthly allowance is spent on bus fare and stationery? Give your answer in the simplest form.

Ans:

.....

29. The bar graph shows the number of fiction and non-fiction books sold by ABC Bookshop in the first 3 days of a book fair.



Find the ratio of the total number of books to the total number of fiction books in its simplest form.

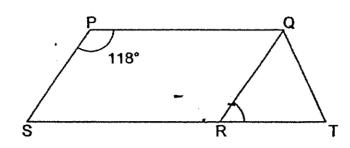
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<b>U13</b>	•	

30. Ben and Jerry shared an amount of money in the ratio of 3:5 respectively. After Ben spent \$20, the ratio of the amount of money Ben and Jerry had became 1:2. How much money did Jerry have?

Ans : \$

.......

31. PQRS is a parallelogram. SRT is a straight line. Find ∠QRT.



Ans : _____

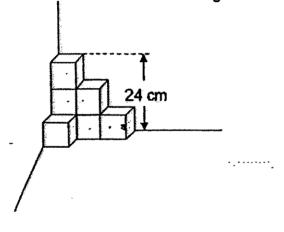
32... 3 apples and 2 oranges cost \$2.15. 1 apple and 1 orange cost \$0.85. What is the cost of 1 orange?

Ans: \$

33. A rectangular sheet of cardboard measures 34 cm by 24 cm. What is the maximum number of rectangular pieces that can be cut from it if each piece measures 6 cm by 4 cm?

Ans:

34. The figure is made up of some identical cubes. It is placed in a corner of the wall. Find the volume of the figure.



\ns : _____cm³

35. In a triangle, Angle P is 150% of Angle Q and Angle Q is 50% of Angle R. Find Angle R.

. . . . . .

Ans : _____



# HENRY PARK PRIMARY SCHOOL P6 PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET B (PART 2)

Name:	( ) Class: P6	·····
<del>.</del>		
13 Questions		
50 Marks		
Total Time for Booklets A ar	nd B: 2 h 15 min	

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
READ AND FOLLOW INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the space provided.

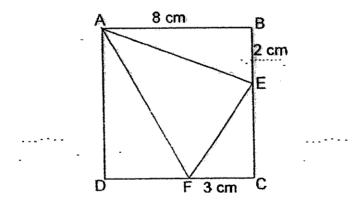
The number of marks available is shown in [ ] at the end of each question or part-

question. (50 marks)

36. Joseph has \$m. Kenny has 3 times as much money as Joseph. Leo has half the amount of money Joseph and Kenny has altogether. How much money do the 3 boys have altogether?

Ans: _____ [3]

37. In the figure, ABCD is a square of side 8 cm. BE is 2 cm and FC is 3 cm. Find the area of  $\triangle$ AEF.

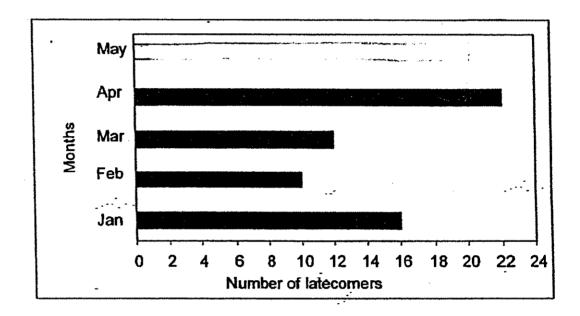


Ans: [3]

38. The table below shows the number of pupils who were late for school from January to May this year. There were 80 latecomers during this period of time.

Month	Jan	Feb	Mar	April	May
Number of latecomers	16	10	12	22	?

- (a) How many pupils were late for school in May? [1]
- (b) Plot the missing data in the bar graph drawn below. [1]

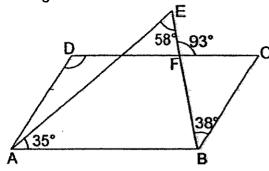


(c) What percentage of the number of latecomers came late in the month of January?

Ans: (a) _____ [1]

(c) [1

39. The figure is not drawn to scale. ABCD is a parallelogram. Find ∠ADC.

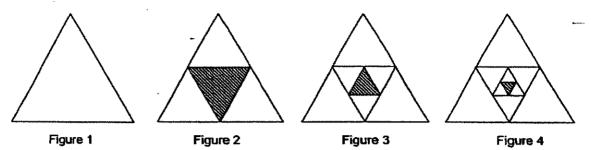


Ans	٠	[3]	ı
W12		J	Į

40. There were 30 more members in the IT Club than in the Art Club. 15 members left the Art Club for the IT Club. It was then found that the number of members in the IT Club was 5 times as many as the number of members in the Art Club. How many members were there in both clubs altogether?

Ans : [3]

41. In the following figures, the area of the biggest equilateral triangle is 64 cm² as shown in Figure 1. A new triangle is formed by connecting the midpoints of the sides of the previous triangle. If the pattern continues, find the area of the smallest triangle in Figure 4.



Ans:_____[3]

- 42. At first, the total number of sheep in Farm A and Farm B was 980. After  $\frac{3}{5}$  of the sheep in Farm A and 200 of the sheep in Farm B are sold, the ratio of the number of sheep in Farm A to Farm B becomes 1:4.
  - (a) Find the number of sheep in Farm B at first.
  - (b) Find the total number of sheep left in Farm A and Farm B.

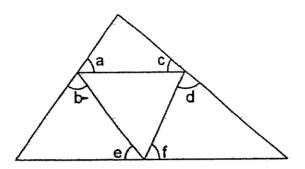
Ans: (a) _____[2]

(b) [2]

- 43. Four children, Angela, Belinda, Cristobel and Dorothy shared \$240. Angela received \$\frac{1}{2}\$ of the total amount of money received by Belinda, Cristobel and Dorothy. Belinda received \$\frac{2}{3}\$ of the total amount of money received by Cristobel and Dorothy. Cristobel received 3 times as much money as Dorothy.
  - (a) How much money did Dorothy receive?
  - (b) What fraction of Angela's money is Dorothy's money if Angela gave \$20 to Dorothy?

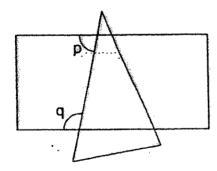
Ans:	(a)	 [2	]

- 44. Study the diagram below.
  - (a) What is the sum of  $\angle a$ ,  $\angle b$ ,  $\angle c$ ,  $\angle d$ ,  $\angle e$  and  $\angle f$ ?



The figure below shows a rectangle and a triangle.

(b) What is the sum of  $\angle p + \angle q$ ?

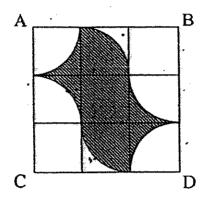


Ans: (a)[	2]
-----------	----

- 45. Terrence earns \$350 less than Leslie every month. They each spend \$800 every month and save the rest of their money.
  - (a) How long does it take for Terrence to save \$2100 and Leslie to save \$4550?
  - (b) What is Terrence's monthly salary?

Ans:	(a)	*	[2	]
------	-----	---	----	---

- 46. In the figure, ABCD is a square with a perimeter of 84 cm. It is made up of identical squares and quarter-circles. (Take  $\pi = \frac{22}{7}$ )
  - (a) Find the perimeter of the shaded region.
  - (b) Find the area of the shaded region.



Ans: (a) _____[2]

(b) _____[3

- 47. At first, Bob had only \$5-notes and Chris had only \$2-notes. The number of notes Bob had is 80% of Chris' notes. When Bob gives Chris \$100, the number of notes Chris has now is 70% more than Bob.
  - (a) How many notes did Bob have at first?
  - (b) How much money does Chris have at the end?

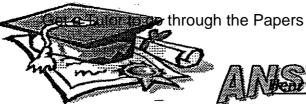
Ans:	(a)	-	[3]

- 48. A lorry, a van and a car set off at the same time travelling at a constant speed of 60 km/h, 80 km/h and 120 km/h respectively. The lorry and the van were travelling from Town G to Town H while the car was travelling from Town H to Town G. The car passed the lorry 2 minutes after passing the van.
  - (a) Find the ratio of the distances travelled by the lorry to the van to the car at the moment when the car passed the van.
  - (b) Find the distance between Town G and H.

Ans:	(a)	[2]
	(h)	TT.

End - of - Paper

Setters: Mrs Priscilla Heng Mrs Norah Idil 24



# NEW WAREHAYS SANDOUSE TO

1)3	2)3	3)1	4)2	5)4	6)4
7)3	8)4	9)3	10)3	11)1	12)2
13)4	14)2	15)4	$\frac{1}{3}$	17)2.9	18)60
19)20cm	70):7.4	21)38	22)375	23),4	24)450
25)(5±K)	26) (2	27)72cn	$r^{2} = 28)\frac{4}{9}$	29)?	30)\$200
31)620	(32)50.41	)33)34	34)3584	cm² 35)80 ⁹ /	36)\$6in

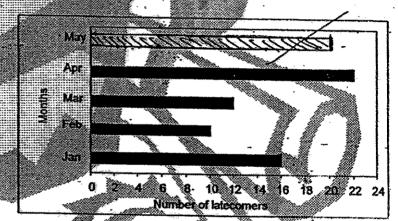
37)27cm² 38)a:20 38)b. 38)c.20% 39)125° 40)90

A1)1cm² 42)a.680 42)b.600

44)b.180⁰ 45)a.7 45)b.\$1100

46)a.66cm 46)b.168cm² 47)a.120

47)b.\$400 48)a.3:4:6 48)b.60km





### Maha Bodhi School

## 2007 Preliminary Examination

### **Mathematics**

Name	*	*	_( , ,)	Date	:	21 August 2007
Class	; Pr 6			Duratio	n : ;	2 h 15 min

## BOOKLET A

### Section A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4).

Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Sally was supposed to meet her friend at 5 minutes to 10.

She arrived  $\frac{1}{4}$ h after the appointed time.

At what time did she arrive?









- page 1-

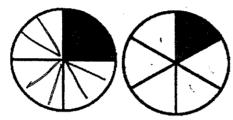
 For every 2 dumplings that a new worker wraps, an experienced one can wrap 3 more. The two workers wrapped a total of 70 dumplings together one morning.

How many more dumplings were wrapped by the experienced worker?

- (1) 14
- (2) 30
- (3) 42
- (4) 50
- 3. Mother made two identical pizzas and cut each pizza into a different number of equal pieces.

She then gave one piece of each pizza away.

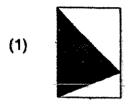
What fraction of the pizzas she had baked was given away?

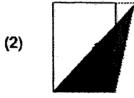


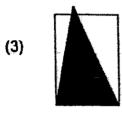
- (1)  $\frac{1}{5}$
- (2)  $\frac{5}{12}$
- (3)  $\frac{5}{24}$
- $(4) \qquad \frac{1}{6}$
- 4. Which one of the following has the same value as 2.16 + 0.3 ?
  - (1)  $\frac{216}{3}$
  - (2)  $\frac{21.6}{30}$
  - (3)  $\frac{216}{30}$
  - $(4) \qquad \frac{216}{0.003}$

- page 2-

5. The rectangles shown below are identical. A part of each rectangle is then shaded. Which one of the following rectangles has the smallest fraction of it shaded?









- 6. There are 20 pupils in a class. There are more girls than boys in the class. Which one of the following is most probably the ratio of the number of boys to that of the girls in the class?
  - (1) 1:2
  - (2) 2: 3
  - (3) 3:4
  - **(4)** 4: 5
- 7. A certain number will give the same answer when rounded off to the nearest ten, hundred or thousand.

Which one of the following can be that number?

- (1) 1599
- (2) 1995
- (3) 2990
- (4) 9953

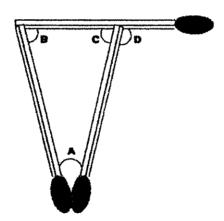
- page 3-

8. The table below shows the number of points four pupils had before and after Round 3 of a computer game.

Pupil	Before Round 3	After Round 3
Abdullah	100 points	50 points
Badawi	120 points	30 points
Mohamad	200 points	40 points
Mahatir	300 points	100 points

Which pupil has lost the largest percentage of his points?

- (1) Abdullah
- (2) Badawi
- (3) Mohamad
- (4) Mahatir
- 9. Samy took out three identical matchsticks from a matchbox and formed a triangle with them as shown in the diagram below.



Samy then made a few statements about the angles but only one of them is <u>definitely</u> correct. Which one is it?

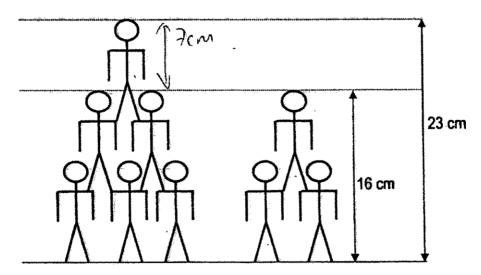
- $(1) \qquad \overline{\angle A + \angle C} = \angle B + \angle A$
- $\angle B + \angle C = \angle D$
- $(3) \qquad \angle A + \angle B = \angle C + \angle D$
- $(4) \qquad \angle B + \angle C = \angle A$

After a game, three girls counted the number of marbles they had left and two of them made the following observations. Study the picture before answering Question 10.



- 10. Which one of the following statements is not possible?
  - (1) Valerie had more marbles left than Vanessa.
  - (2) Melissa had the most number of marbles left.
  - (3) Both Vanessa and Valerie had 2 marbles left.
  - (4) Valerie had 6 marbles left.

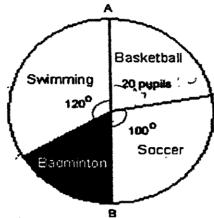
Siti wants to stack up some identical toy soldiers as shown below to form a toy pyramid. If the toys are stacked up three layers high, they will reach 23 cm. If the toys are stacked up two layers high, they will reach only 16 cm.



- 11. If Siti wants to stack up 10 toys in the same pattern, how high will it reach?
  - (1) 28 cm
  - (2) 30 cm
  - (3) 35 cm
  - (4) 65 cm

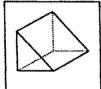
page 5-

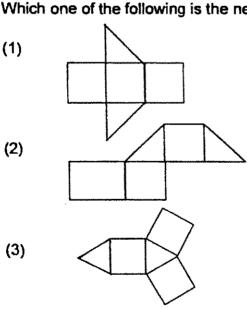
A group of children was asked to name their favourite sports. The pie chart below shows what the pupils chose. Given that AB is a straight line and that 20 pupils picked basketball as their favourite sports, study the pie chart below carefully and answer Question 12.

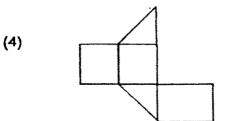


- 12. How many more pupils preferred soccer to badminton?
  - (1)40
  - (2) 25
  - (3)15
  - 10 (4)
- 13. When two of the solid figure (shown on the right) are stacked together, a cube will be formed.



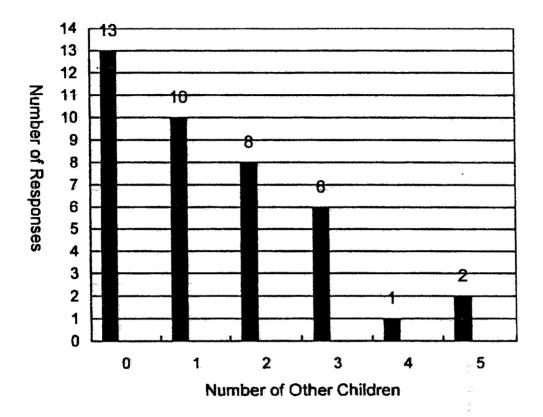






- page 6-

A child from every unit in a block of flats was asked how many other children lived in the same flat. The bar graph below presents the results. Study it carefully and answer Questions 14 & 15.



- 14. From the survey, what is the largest number of children living in a flat?
  - (1) 5
  - (2) 6
  - (3) 13
  - (4) 18
- 15. What is the total number of children living in that block of flats?
  - (1) 40
  - (2) 58
  - (3) 85
  - (4) 98

Please proceed to Booklet B.
Please ensure that you have transferred your answers correctly onto your OAS.

page 7-



#### Maha Bodhi School

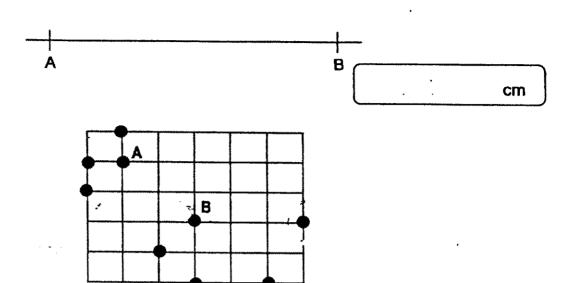
## 2007 Preliminary Examination

#### **Mathematics**

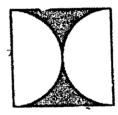
			£	***************************************
			Section A	
Name	•	( )	( 20 marks )	
Class	: Pr 6		Section B	
Nursti	on : <b>2 h 15 min</b>		( 30 marks )	
Duidu	OII. Z II 13 IIIII		Section C	
Date	: 21 August 2007		(50 marks)	
Paren	t's Signature :		Total ( 100 marks )	
Section Quest For qu	ions 16 to 25 carry 1 m	BOOKL  ark each. Write your ans	ET B  ur answers in the spaces proswers in the units stated. (1	ovided. IO marks)
16.	The multiple of 4			
		•		
17.	A certain number 8 of them have be Write down the m	en listed below.	ne empty box below.	
1	3 9	18 4	36 2,	12
18.	What do you get v 1.23 and 567.8 ?	when you subtra	ct 4 hundredths from the	sum of
18.	What do you get v 1.23 and 567.8 ?	when you subtra	ct 4 hundredths from the	sum of
18.	What do you get v 1.23 and 567.8?	when you subtra	ct 4 hundredths from the	sum of

- page 8-

19. With a ruler, measure and write down the length of AB.



- 20. Ahmad is facing Point A from Point B.
  When he turns 135° in clockwise direction, he will face another point.
  Circle that point in the diagram above.
- 21. The square shown on the right has two identical semi-circles in it. If the perimeter of the square is 80 cm, what is the total area of the shaded parts? (Take  $\pi = 3.14$ )



$\overline{}$		
1		2
1		cm ⁻
L		

22. Muthu has some 50¢ coins, twice as many 20¢ coins and thrice as many 5¢ coins as 50¢ coins. His 50¢ coins add up to \$2. How much money does he have?

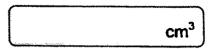
**\$** 

23. One inch is about 2.54 cm. How many cm are there in 8 inches?
(Leave your answer to one decimal place)

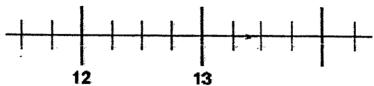
cm

- page 9

24. Three 4-cm cubes are glued together to form a cuboid. Find the volume of the cuboid.



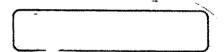
25. Mark with an 'x' the approximate position of 13.3 in the diagram below.



Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated. (20 marks)

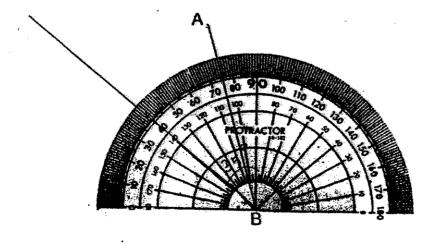
26. Without repeating any digit, write down the largest 3-digit number which is divisible by 5.



27. If 56 X 78 = 4368, then + 7.8 = 56

1
I
1

28. Construct the line BC in the diagram below such that ∠ABC = 35° and BC = 8 cm.



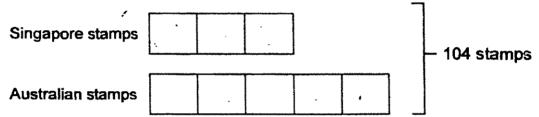
- page 10

29. A bus started its journey at the time shown on the right.It took the bus 123 minutes to reach a town in Malaysia.At what time did the bus reach the town?



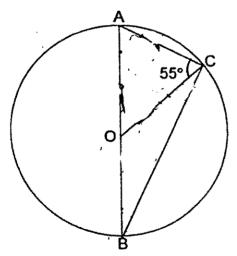
<u></u>			_
	_	p.m.	

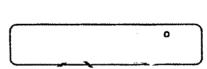
30. The model below shows the number of Singapore and Australian stamps found in a stamp album. How many more Australian stamps were there?



stamps

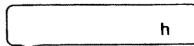
31. In the figure shown below, not drawn to scale, O is the centre of the circle and AB, AC, BC and OC are straight lines.
Given that ∠OCA= 55°, find ∠OBC.





32. A man can travel from Town A to Town B in 5 hours if he drives at 40 km/h.

How long will he take if he increases his speed by **n** km/h?

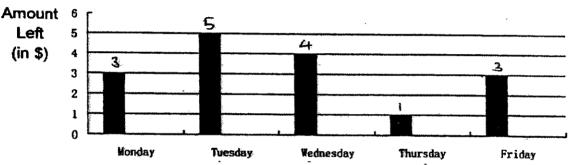


- page 11

33. Mrs Koh only had 20¢ and 50¢ coins and her 20¢-coins added up to the same value as her 50¢-coins. She realized she had just enough coins to exchange for \$10 notes. If she had more than \$40 but less than \$100, write down a possible number of coins that she could have.

coins

Junming had \$6 with him when he went to school every morning. The bar graph below shows the amount of money he had left at the end of each school day. Study it carefully and answer Question 34.



Day of the Week
On which day did Junming spend the least amount of his pocket
money and how much was this amount?

day, \$

The diagram above shows a circle that fits perfectly in a square. If the perimeter of the square is 2p cm, find the radius of the circle. (Express your answer in terms of p).

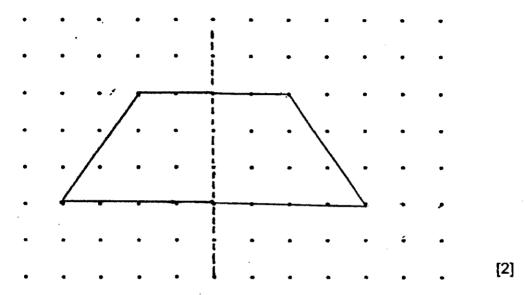
cm

- paga 12 -

### Section C (50 marks)

For questions 36 to 48, show your working clearly in the space provided for each question and write your answer in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

36. In the diagram shown below, the dotted line is the line of symmetry of an incomplete figure. Complete it



What is the special name given to the shape of the completed figure?

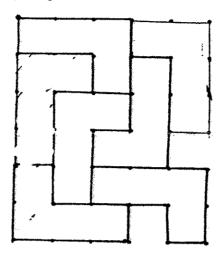
Answer:	[1	]

At first, the amount of money Sally had to that Molly Mad was 5: 6 and Molly had as much as Mandy. Sally and Molly were then given a solution of sally and the 3 girls had the same amount of money each finally. Find the sum of money the 3 girls had at first.

	<b>š</b>	
Answer:		[3]

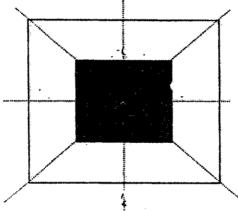
- page 13 -

38. The following diagram is a tessellation of a unit shape.



(a) Colour one of the unit shapes.

- [1]
- (b) Using only the given dots, extend the tessellation by adding one more unit shape without flipping it. [2]

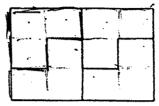


The diagram above shows a smaller square piece of paper pasted onto a larger one. The four dotted lines show the lines of symmetry. Given that the area of the smaller square is 64cm, what is the perimeter of the larger square?

Answer:		[3]
r allower.	 	 10]

- page 14 -

40. The rectangle shown below is a tessellation of 4 of the same unit shape. Each unit shape is formed by three identical squares.



The perimeter of the rectangle is 42 cm. Find:

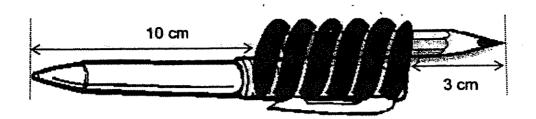
- (a) the perimeter of each unit shape and
- (b) the area of the figure.

Answer:	(a)	-	[2]
Answer:	(a)		[2]

[2]

- page 15 -

(b)_____



41. Tom tied his pen to his pencil as shown in the diagram above to form a toy. The length of the pencil is  $\frac{3}{5}$  the length of the pen.

What is the length of the toy?

Answer:	1	[4	]
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- 42. During a sale, a departmental store offered a storewide discount of a certain fixed percentage. Mrs Goh paid \$16 for a dress during the sale and saved \$4.
  - (a) What is the percentage discount?
  - (b) How much did Mr Goh save if he paid \$20 for his purchases during the sale?

Answer: (a)		[2]
(b)		[2]

43. Using  $\frac{3}{5}$  of his money, Derek could buy 8 similar pens.

If he was given an extra dollar, he could use it together with the rest of his money to buy another 6 such pens.

How much money had Derek?

Answer: _____ [4]

- page 18 -

Two motorists, X and Y, travelled on the same route from Town A to Town B. They each drove at a uniform speed but started their journey at a different time of the day.

The table below shows some details of their journey.

Motorist Distance		Time	Distance From	Time
	from Town A		Town B	
X	60 km	13 25	60 km	15 55
Υ	100 km	13 25	100 km	15 55

If Motorist X reached Town B at 16 25, find:

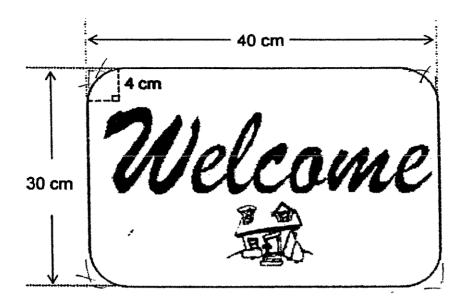
- (a) the distance between the two towns and
- (b) the speed at which Motorist Y was travelling.

Answer:	(a)	 * .	[2]
	(b)		[2]

- page 19 -

- In a frog-leaping competition, for every two leaps made by a big frog, a small frog would have to leap thrice.In a 100-m race, the big frog leapt 50 times.
  - (a) How many times did the small frog leap?
  - (b) How many metres did the small frog move with each leap?

Answer: (a)	· · · · · · · · · · · · · · · · · · ·	[2
(b)		[2]
		. nane 20 .



46. Each corner of the floor mat shown above is made up of a quadrant of radius 4 cm. Taking  $\pi$  = 3.14, find the perimeter of the floor mat.

_		
Answer:		[4

- page 21 -

47. Ali, Bala and Krisnan went to a shopping centre and bought a present for their friend. They agreed to share the cost of the present equally but Ali did not have any money with him that day and Bala did not bring enough to pay for his share. As a result, the amount of money Bala paid to that paid by Krisnan was 1:4.

The next day, Bala returned \$12 to Krisnan.

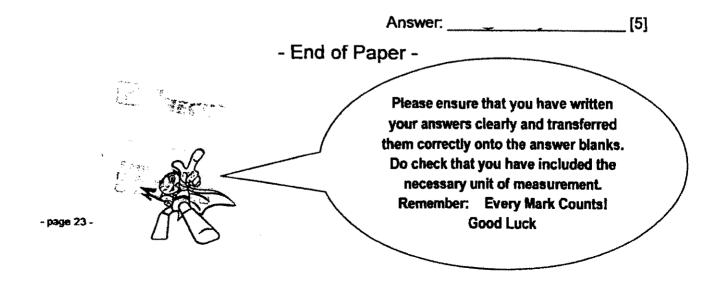
Find

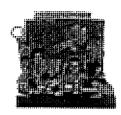
- (a) how much money Bala brought along with him to the shopping centre and
- (b) the cost of the present.

Answer:	(a)	 [3]
	(b)	[2]

- page 22 -

Two different machines, A and B, were used together at the same time to print a book.
It took two hours for the book to be printed.
If only Machine A was used, it would have taken another 4 hours.
How long would it take to print the same book if only Machine B was used?





# ExamSutra 考试圣经

# Answer Sheets

# Maha Bodhi /Pri 6 SA2/2007 Maths

- 1)3 2)2
- 3)3

9)1

15)4

- 4)3
- 5)2

- 7)2
- 8)3

- 10)4
- 11)2
- 12)4

6)2

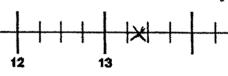
- 13)2
- 14)2
- 16)28
- 17)6
- 18)568.99

- 19)7.7cm
- 20)

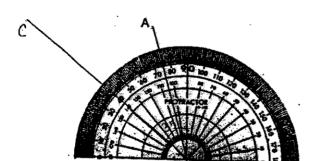
- - 21)86cm² 22)\$4.20 24)192cm³

- 23)20.3cm
- 25)

- 26)985
- 27)436.8



28)



- 29)2.48pm
- 30)26 stamps
- 31)35°

38)

 $32)\frac{200}{40+n}h$ 

- 33)210 coins
- 34)Tuesday, \$1
- 35)0.25p cm

- 36)trapezium
- 37)\$111

39)64cm

- 40)a.24cm
- 40)b.108cm²
- 41)20.5cm

42)a.20%

42)b.\$5

43)\$20

- 44)a.420km
- 44)b.88km/h
- 45)a.75 times
- 45)b.1 $\frac{1}{3}$ m
- 46)133.12cm

47)a.\$18

47)b.\$90

- 48)3 hours

### NAN HUA PRIMARY SCHOOL CONTINUAL ASSESSMENT 1 – 2007 MATHEMATICS PRIMARY 6

**BOOKLET A** 

15 Questions

20 marks

Total Time for Booklet A & B: 2 h 15 min

### **INSTRUCTIONS TO CANDIDATES**

DO NOT OPEN THE BOOKLET UNTIL YOU ARE TOLD TO DO SO: FOLLOW ALL INSTRUCTIONS CAREFULLY.

**ANSWER ALL QUESTIONS** 

Section	Maximum Marks	Actual Marks
Α	20	
B+C	80	-
Total	100	

Name:	
Class: Pr 6	
Date: 27 February 2007	
Parent's Signature:	

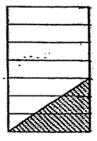
## SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS).

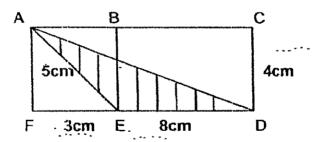
- 1. What is the value of  $\frac{1}{3} \div 42$ 
  - $(1) \qquad \frac{3}{4}$
  - $(2) \frac{4}{3}$
  - $(3) \frac{1}{12}$
  - $(4) \qquad \frac{1}{7}$
- 2. What is the perimeter of a square of area 25 cm²?
  - (1) 5 cm
  - (2) 10 cm
    - (3) 20 cm
    - (4) 100 cm
- 3. Amy and Betty shared 60 sweets in the ratio 2 : 3. How many more sweets did Betty have than Amy?
  - (1) 12
  - (2) 20
  - (3) 30
  - (4) 55

- 4. In  $12 + 24 \div 3 \times 2 =$  , what is the missing number in the box?
  - (1)
  - (2) 24
  - (3) 28
  - (4) 40
- 5. Express the sum of  $\frac{1}{5}$  and  $\frac{1}{10}$  as a decipitat.
  - (1) 0.05
  - (2) 0.1
  - (3) 0.15
  - (4) 0.3
- 6. What fraction of the figure is not shaded?



- (-1)  $\frac{3}{7}$
- $(2) \frac{4}{7}$
- $(3) \frac{3}{14}$
- $(4) \frac{11}{14}$

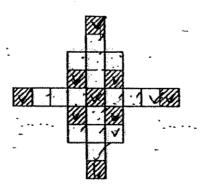
- 7.  $10 \times \frac{1}{3} = 4 \times \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ 
  - (1) 6 _
  - (2) 2
  - (3) 3
  - (4) 4
- 8. 2:3 = :6. What is the missing number in the box?
  - (1) 9
  - (2) 2
  - (3) 3
  - (4) 4
- 9. What is the area of the shaded triangle ADE? (The diagram is not drawn to scale.)



- (1)  $(\frac{1}{2} \times 8 \times 5) \text{ cm}^2$
- (2)  $(\frac{1}{2} \times 11 \times 5) \text{ cm}^2$
- (3)  $(\frac{1}{2} \times 8 \times 4)$  cm²
- (4)  $(\frac{1}{2} \times 11 \times 4) \text{ cm}^2$

- 10. Alice is 12 years old now. Her mother is thrice as old as her. What will be their total age in 11 years' time?
  - (1) 48
  - (2) 58
  - (3) 59
  - (4) 70
- 11. Dave has  $\frac{3}{7}$  as much money as Edwin. Edwin has  $\frac{2}{3}$  as much money as Fred. Dave has \$30 less than Fred. How much money does Edwin have?
  - (1) \$12
  - (2) \$28
  - (3) \$42
  - (4) \$70

Study the figure below. How many more squares must be shaded so that only 40% of the figure is left <u>unshaded</u>?



- (1) 6
- (2) 7
- (3) 10
- (4) 16

- 13. Carl spent  $\frac{1}{5}$  of his salary on transport,  $\frac{1}{2}$  of the remainder on food and saved the rest. If he earned \$2 000, how much did he save?
  - **-(1)** \$200
    - (2) \$300
    - (3) \$600
    - (4) \$800

- 14. The ratio of the price of an apple to that of an orange was 2:3. The price of an orange was \$1.50. Mrs Lee bought 10 apples and 2 oranges. How much did she pay for the fruits?
  - (1) \$13.00
  - (2) \$17.00
  - (3) \$18.00
  - (4) \$19.50
- 15. There are 36 blue and yellow marbles in a box. 1/4 of the marbles are yellow.
   6 blue marbles are given away. What is the new ratio of the yellow marbles to blue marbles?
  - (1.) 1:9
  - (2) 9:1
  - (3) 3:7
  - (4) 7:3

### Nan Hua Primary School Continual Assessment 1 – 2007 Mathematics - Primary 6

BOOKLET B

			######################################				
Nam	e	•	***************************************			')	Class: Primary 6
	TION B	ıs( 5 maı	·ks )			•	••
Ques	stions	16 to 20 provided	carry 1 ma	ark each.	Listen	carefully	y and write the answers in
		- -	•				
16.		······································		AMPRICATION			
							-
17.		***************************************		cm _.			
	آه			A ANT	. <del>.</del>		
18.	\$						-
	*	*	<u>.</u>	······································	.* . *	·	. •
10	æ						
19.	<b>D</b>					*****	
20.		·			-		

- _ Questions 21 to 25 carry 1 mark each. Write your answers in the blanks provided.
- For questions which require units, give your answers in the units stated.
   (5 marks)
  - 21. The sum of the page numbers of two facing pages of a book is 123. What are the two page numbers?

Ans: and

22. A machine can fill bottles with water at the rate of 15 bottles per minute. At this rate, how many bottles can it fill in 10 minutes?

Ans:_____bottles

23. A sum of money was divided between Darren and Justin in the ratio 2:3. What percentage of the money did Justin receive?

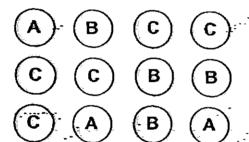
Ans:______%

24. Arrange the followings in ascending order.

$$2, \frac{3}{5}, \frac{2}{9}, \frac{12}{7}$$

Ans:____

25. What percentage of the balls below are labelled "A"?



B C A B

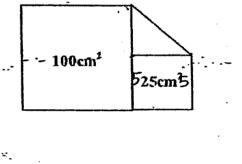
Ans: %

Questions 26 to 35 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the blanks provided. For questions which require units, give your answers in the units stated. (20 marks)

26. Kim Seng has a mass of 24 kg. Ali has a mass of 56 kg. Express Kim Seng's mass as a percentage of their total mass.

Ans: ______%

27. The figure below (not drawn to scale) is made up of 2 squares and a triangle. The areas of the squares are as shown. Find the area of the triangle.



Ans: cm

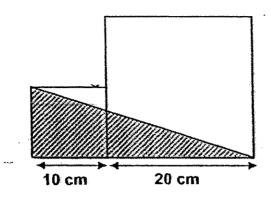
28. The charges for taking a taxi is shown below.

How much will Robert have to pay for a journey of 2.5 km?

	Charges
First 1 km	\$2.50
Every additional 100 m or part thereof	<b>\$0.2</b> 0

Ans: \$_____

29. The figure below is made up of two squares of sides 10 cm and 20 cm. Find the unshaded area of the figure.



Ans: cm²

30. The number of girls at a party is  $\frac{1}{2}$  that of the number of boys. If there are 75 girls, how many children are there at the party?

Ans:_____children

31. In 2006, the ratio of the number of girls to the number of boys in the Science Club was 3:8. In 2007, another 24 girls joined the club and the ratio of the number of girls to the number of boys became 3:4.

How many children were there in the Science Club at first?

Ans: children

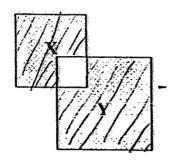
32. A shopkeeper gave away 2 bottles of free mineral water for every 5 boxes of chocolates bought. Each box of chocolates cost \$16. If Mrs Goh received 8 bottles of free mineral water, how much did she spend on the chocolates?

Ans: \$_____

33. For every \$2 saved by Pauline, her mother gave her another \$1. How much must Pauline save if she had \$216?

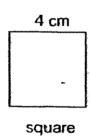
Ans: \$

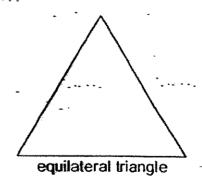
34. In the figure below,  $\frac{5}{7}$  of Square X and  $\frac{8}{9}$  of Square Y is shaded. Find the ratio of the shaded area of Square X to the shaded area of Square Y. Give your answer in its simplest form.



Ans:

35. The side of a square is 4 cm. The perimeter of an equilateral triangle is 48 cm. What is the ratio of the side of the equilateral triangle to the side of the square? Give your answer in its simplest form.





Ans: _____

Section C (50 marks
---------------------

- For questions 36 to 48, show your workings clearly in the space provided for each question and write your answers in the blanks provided.

  The number of marks available is shown in the brackets [ ] at the end of each question or part-question.
  - 36. Shirley paid \$120 for 8 bags and 6 T-shirts. Each bag cost 3 times as much as a T-shirt. Find the difference in price between a bag and a T-shirt.

Answer: [3]

37. A boy bought 20 stamps. Some-were 50-cent stamps and some were 40-cent stamps. The cost of the 50-cent stamps was \$4.60 more than the 40-cent stamps. How many 50-cent stamps did he buy?

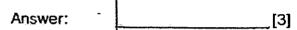
Answer:

[3]

38. Leon had  $\frac{5}{11}$  of what Jim had.

Andy had \$250 less than Jim.

If Andy had  $\frac{1}{5}$  more than Leon, how much did Jim have?



39. A kangaroo chases a rabbit which starts 135 m ahead of the kangaroo. For every 4.7m leap of the kangaroo, the rabbit makes a 1.7m leap. How many leaps-will the kangaroo have to make to catch up the rabbit?

Answer:

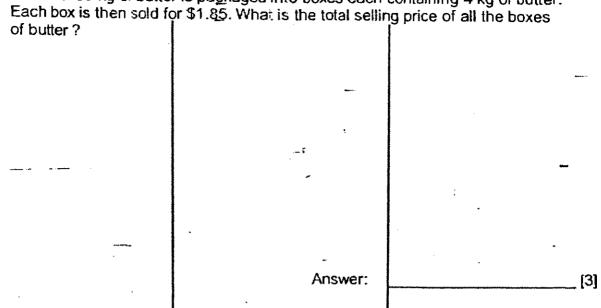
- 14

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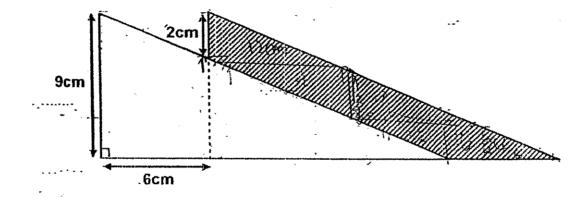
[3]

40. A total of 36 kg of butter is packaged into boxes each containing 4 kg of butter.



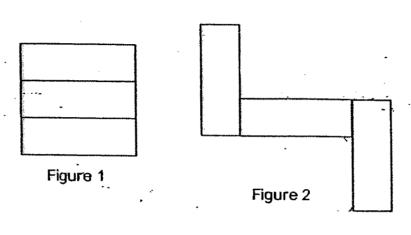
41. The figure below shows two identical right-angled triangles overlapping each other. Find the area of the shaded part.

(The figure is not drawn to scale.)



Answer:			ľ	
AIISWEL.			 ľ	٠

42. Each of the figures below is formed by arranging 3 similar rectangular cards in a certain way. Both figures have the same area of 81cm², Find the perimeter of each figure. (The length and breadth of each rectangular card are in whole numbers.) The figures are not drawn to scale.



Answer: [2]

43. Amy bought 20 books and pens for \$118.
One week later, he sold 4 pens.
Then he had the same number of pens and books left.
Each book cost \$1.00 more than each pen.
How much did he pay for the books?

Inswer: [4

. . . . . . . . . . . . .

- John had 80% more money than Lily.
   Kevin had half of what John had.
   When Lily gave \$320 to Kevin, both of them had the same amount of money.
  - (a) How much did Kevin have at first?
  - (b) If John gave 40% of his money to his parents, how much money had he left??

Answer:	(a)	[2
	(b)	[2]

There were 720 apples and oranges in a big carton.  $\frac{1}{6} \text{ of the apples and } \frac{1}{3} \text{ of the oranges were from China.}$  The rest were from Australia.

If a total of 170 apples and oranges were from China,

- (a) how many apples were in the big carton?
- (b) how many oranges were from Australia?

Answer:	(a)	[3]

46. Study the following sequence of patterns consisting of triangles and circles. The first three patterns are shown below.

		Since-
$\bigcirc$	$\bigcirc$ $\bigcirc$	$\bigcirc\bigcirc\bigcirc$
$\bigcirc \triangle \bigcirc$	$\bigcirc \triangle \triangle \bigcirc$	$O\Delta\Delta\Delta$
_	•	

Pattern 1

Pattern 2

Pattern 3

a) Complete the table below:

Pattern	1	2	3	4 ·	5	6	7:
Number of triangles	1	2	3	-4	5	6	7
Number of circles	4	6	( )	10	12	( )	16

[1]

b) How many circles are there in the Pattern 15?

-(b) [2]

c) Find the number of triangles in a pattern which has 40 circles.

(c)_____[2]

- 47. There were 81 passengers on a train.

  The ratio of the number of adults to the number of children was 7 : 2.

  Some boys alignted from the train and the ratio of the number of men to boys became 9 : 1.
  - a) If there were 27 women and 5 girls on the train, how many boys alighted from the train?
  - b) What was the new ratio of the number of adults to the number of children after the boys had alighted?

Answer:	(a)	
		[3]
	(b)	
		[2]

48. A box has a total of 2 562 red, green and blue beads.
If 3/7 of the red beads and 32 green beads are missing and 20 more blue beads are bought, there will be an equal number of the three types of beads. How many of each, type of beads are there in the box?

Answer: [5]

End of Paper



#### NAN HUA PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 CONTINUA SEMESTRAL ASSESSMENT (1)

CLEBSIAN ACOB	DOLIDIA /T/	
1 2	2415.16	42) Fig. 1 $\rightarrow$ (9x2) + (3x6)
1,3 2.3	34)5:16 35)4:1	=18+18=36
3.1	A0000000	a) The perimeter figure 1
. 788875570	36)\$8	is 36 cm.
4.3	37)14	Fig. $2 \rightarrow (9x4) + (3x4) + (6x2)$
5.4	38) \$550	101.1.11 11.1.11.11.11.11.11.11.11.11.11.1
6.4	39)45 leaps	=36+24=60
7.4	40)\$16.65	The perimeter of figure
8.4	41)48cm2	2 is 60 cm.
9.3		2 15 00 cm.
10.4		43) 2uni t+4=20
11.2		2u→20-4=16
12.1		2u 720 4-10 1u→16/2=8
13.4		1uit+4=8+4=12
14.1		
15.3		12 pens&8 books
16. ¾		12pen + 8 books→\$18
17.36cm		12 units+8units+\$18 <b>-&gt;</b> \$118
18. \$30		20u→\$(118-8)=110
19. \$14		1u→110/20=5.50
20. 250		1u→5.50+1=6.50
21. 61 and	62	8 books→6.50x8=\$52 .
22.150 bo	ttles	He paid \$52.
23.60%		
24. 2/9,3/	5 <b>,</b> 12 <b>/</b> 7 <b>,</b> 2	
25.25%		•
26.30%		
27. 12.5cm	2	
28. \$5.50		<u> </u>
29.350cm2		
30.225 ch	ildr <b>e</b> n	
	_ 2022/0920020012	

31.88 children

32. \$320 33. \$144

```
44) John
          Lily
                       Kevin
                                John
   180%
          100%
                       90%
                                  180%
   100%-90%
  <del>--</del>5%
 5%_->$320
 1%-->$64
 k→90%-->90x64=$5760
 J→180%-->5760x2=11520
 40
100
     x 11520 = 4608
 11520-4608=6912
 a) Kevin had $5760 at first.
 b) John has $6912 left.
45)a)420 apple
   b)722-420=300 oranges
     Australia→300/3x2=200 oranges.
46)a)8,14
 - b)32 circles
   c) 19 triangles
47)a)9
   b) 7:1
48)660
```

#### NAÑ HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 - 2007 MATHEMATICS PRIMARY 6

#### **BOOKLET A**

15 Question	าร

20 marks

Total Time for Booklet A & B: 2 h 15 min

#### **INSTRUCTIONS TO CANDIDATES**

DO NOT OPEN THE BOOKLET UNTIL YOU ARE TOLD TO DO SO. FOLLOW ALL INSTRUCTIONS CAREFULLY.

#### **ANSWER ALL QUESTIONS**

Sect	ion	Maximum Marks	Actual Marks
A		20	
В+	- C	80_75	•
То	tal	190_ 15	

Name:	<u> </u>	)
Class: Pr 6		
Date: 8 May 2007		
Parent's Signature:	·	

Section-A (20 marks)

Questions 1 to 10 carry 1 mark each.

Questions 11 to 15 carry 2 marks each.

For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS).

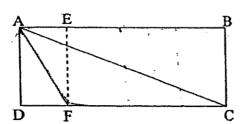
- 1.  $\frac{3}{5} \div 7$  has the same value as _____
  - $(1) \quad \frac{3}{5} \times 7$
  - (2)  $\frac{5}{3}$  ×-7
  - $(3) \quad \frac{3}{5} \times \frac{1}{7}$
  - $(4) \quad \frac{5}{3} \times \frac{1}{7}$
  - 2. Express 80g as a decimal of 2kg.
    - (1) 0.004
    - (2) 0.008
    - (3) 0.04
    - (4) ...0.08
  - 3. Mrs Loh bought a car for \$89035..
    What was the amount when rounded off to the nearest \$100?
    - (1) \$89 000
    - (2) \$89 700
    - (3) \$89 800
    - (4) \$90 000
  - 4. Simplify 15 3y + 4y 8
    - (1)  $\dot{7} + \dot{y}$
    - (2) 7 3
    - (3) 7 + 7y
    - (4) 7 7y

- In a class,  $\frac{-3}{7}$  of the pupils are girls and the rest are boys. Express the number of boys as a ratio of the number of girls.
  - (1) 4:7
  - (2) 7:4
  - (3) 4:3
  - (4) 3:4
- 6. Look at the diagram below. The sums of the numbers in each row, column and diagonal are equal. Find the value of A. (All boxes contain a number.)

A		6
	5 ′	. 7
4		

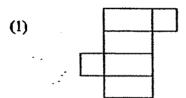
- (1) 9
- (2) 2
- (3) 3
- (4) 8
- 7. A pupil gets 12 sums out of 50 sums correct. What percentage of the sums iswrong?
  - (1) 24%
  - (2) 40%
  - (3) 60%
  - (4) 76%
- 8. Find the value of  $3\frac{2}{5} 1\frac{1}{2}$ 
  - (1)  $1\frac{9}{10}$
  - (2)  $2\frac{1}{3}$
  - (3)  $2\frac{1}{10}$
  - (4)  $4\frac{9}{10}$

9. Look at the figure below. The area of ACF is equal to _____

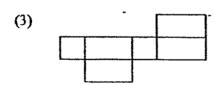


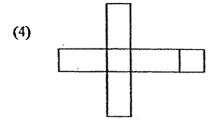
- (1)  $\frac{1}{2}$  of the area of rectangle AEFD.
- (2)  $\frac{1}{2}$  of the area of triangle ACD.
- (3)  $\frac{1}{2}$  of the area of rectangle ABCD.
- (4)  $\frac{1}{2}$  of the area of rectangle BCFE.

10. Which figure cannot be the net of a cuboid?

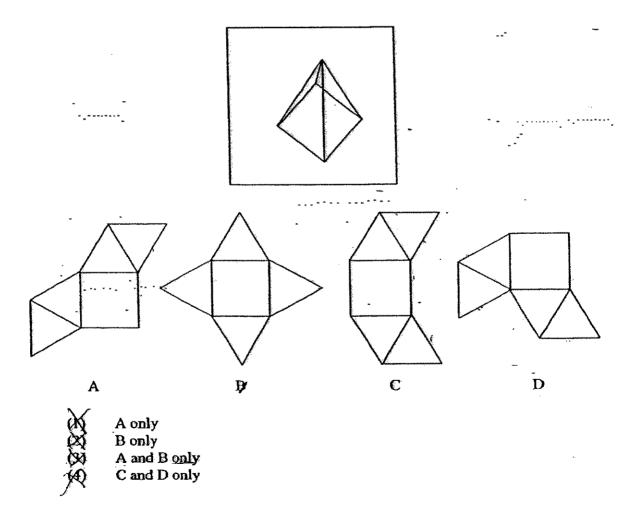




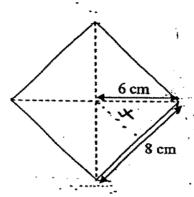




- 11. Mrs Lim spent 10% more than what Mrs Tan spent.
  If Mrs Lim spent \$99, how much did Mrs Tan spend?
  - (1) \$89.10
  - (2) \$90.00
  - (3) \$108.00
  - (4) \$110.00
- 12. A motorist travelling at 60km/h took 5 hours to complete his journey. How much longer would he take to complete the same journey if he reduced his speed by 10km/h?
  - (1) 1 hour
  - (2) 2 hours
  - (3) 6 hours
  - (4). 25 hours
- 13. Which one of the following nets can be folded to form the pyramid shown?



- 14. Tap A takes 10 minutes to fill a pail and Tap B takes 5 minutes to fill the same pail. How long will it take to fill the pail if both taps are turned on at the same time?
  - (1) 15 minutes
  - (2) 2 minutes
  - (3)  $3\frac{1}{3}$  minutes
  - (4)  $7\frac{1}{2}$  minutes
- 15. The four corners of a square piece of paper was folded in to form a diamond shape as shown below.



What was the area of the square piece of paper before it was folded?

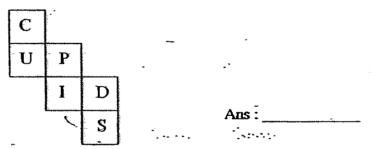
- $(1) 48 cm^2$
- (2) 64 cm²
- (3) 96 cm²
- (4) 144 cm²

#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 2007 MATHEMATICS PRIMARY 6

#### **BOOKLET B**

Sect	ion B (30 marks)
prov	stions 16 to 25 carry 1 mark each. Write your answers in the blanks vided. For questions which require units, give your answers in the units ed. (10 marks)
16.	139 × 11 = 139 + 139 ×  × 2  The missing number in the box is
	· · · · · · · · · · · · · · · · · · ·

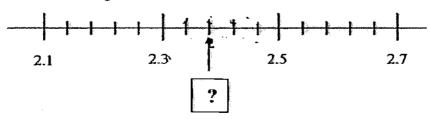
18:- If the figure shown below is folded to make a cube, what is the letter opposite the letter 'P'?



Ans:

19. Fill in the missing decimal

17. What percentage of 2l 400ml is 800 ml?



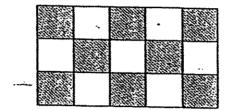
Ans:

′%

20. Amanda has n marbles. John has twice as many marbles as Amanda. How many marbles do they have altogether?

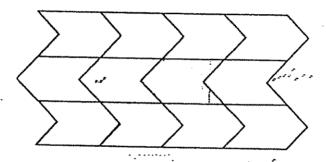
Ans	:	fnarbles	

21. In the figure below, how many more squares must be shaded to make the ratio of the number of shaded squares to the total number of squares 3:5?



Ans: _____ more

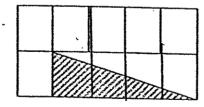
22. Identify and shade the unit shape in the tessellation below.



23. Express  $3\frac{1}{5}$  hours in hours and minutes.

-Ans: h min

24. What percentage of the figure is shaded?



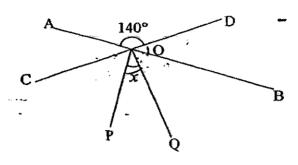
Ans:______- %

25. If a = 3, find the value of  $\frac{2a+4}{5}$ 

Ans : _____

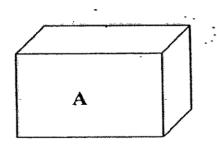
Questions 26 to 35 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the blanks provided. For questions which require units, give your answers in the units stated. (20 marks)

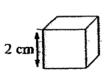
26. In the figure, AB-and CD intersect at 0. PO  $\perp$  AB and QO  $\perp$  CD. If  $\angle$ AOD = 140°, find  $\angle$ x. (The figure is <u>not</u> drawn to scale)



Ans: ________

27.





A is a block of wood 16cm long, 5cm wide and 11cm tall.

Nicholas wants to cut as many 2-cm cubes as possible from Block A.

What is the maximum number of cubes he can have?

Ans: ____cubes

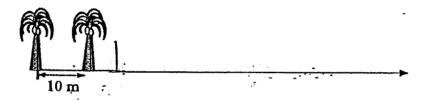
28. Mr Lim deposits \$8 000 in a bank which pays an interest of 4% per year.

How much interest will he get in 9 months?

Ans: \$

29. Palm trees are planted 10 m apart along a straight road.

If the road is 250 m long, find the number of palm trees along this stretch of road.



Ans: _____palm trees

30. The price of a computer was increased by 10% to \$2 530. What was the price before the increase?

Ans_: \$

31. Stanley has some marbles. -

 $\frac{2}{7}$  of them are red and  $\frac{3}{10}$  of the remainder are blue.

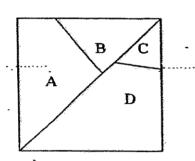
Find the ratio of the red marbles to the blue ones. (Leave your answer in its simplest form)

A	_	
Ans	•	
	٠	

32. A bus left Singapore at 11.45am and reached Malacca at 4.30pm on the same day. How long was the journey in hours and minutes?

Ans: h min

33.



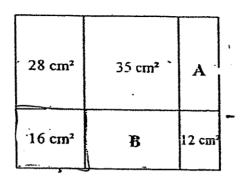
The square shown above is divided into 4 sections such that

Area A: Area B = 3: 2 Area C: Area D = 1: 5

What fraction of the whole figure is Area A? Give your answer in the simplest form.

Ans:

34. The figure below, not drawn to scale, shows a rectangle divided into 6 parts. Each part has a different area. Find the total area of A and B.

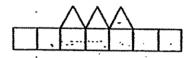


Ans: cm²

35. Study the pattern carefully.







Pattern I

Pattern 2

Pattern 3

The pattern above continues. What is the difference in the number of squares and triangles in Pattern 47?

Ans :_____

#### Section C (50 marks)

For questions 36 to 48, show your workings clearly in the space provided for each question and write your answers in the blanks provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question. Remember to include the units wherever possible.

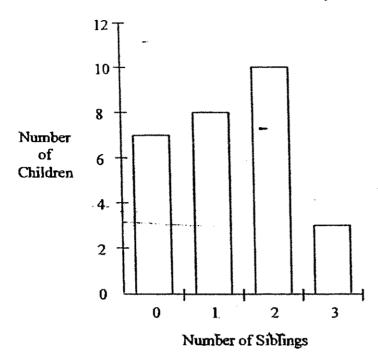
36. Alan and Benny had equal number of stamps. Alan lost 36 of his stamps. Then Benny has 5 times as many stamps as Alan. How many stamps had Alan at first?

Ans:_____[3m]

37.  $\frac{3}{4}$  of Alice's salary is the same as  $\frac{1}{2}$  of Betty's salary. If Alice earns \$200 less than Betty, how much does Betty earn?

Ans:____[3m]

38. A group of children was asked how many siblings he/ she had. The bar chart below shows the result of the survey.



Find

- (a) the number of children involved in the survey.
- (b) the total number of siblings the children in the group have.

٠. Ans	(a)	[1m]
-	(ъ)	[2m]

- 39 A water-melon cost \$n.

  Mother paid \$15 for 3 water-melons and 2 pinapples.

  What was the cost of
  - (a) 3 water-melons?
  - (b) 1 pineapple?

Ans : (a)	 [lm]
(ь)	 [2m]

40. A tank, when  $\frac{7}{8}$  filled with water, had a mass of 17kg. When  $\frac{1}{2}$  filled, it had a mass of 11kg. What was the mass of the empty tank?

Ans	•	[3m]

41. The fees for using a badminton court are as follows:

Time	Usual Rate
Before 5pm	\$6 per hour
After 5pm	\$10 per hour

To make it attractive, a discount of 10% was given for the use of the court "before 5pm. Karen and Dawn booked the badminton court from 4 pm to 7 pm.

If they shared the cost equally, how much did each of them pay?

Ans:____[3m]

.:-

42. At 8.30am, a car started from Town A and travelled towards Town B at an average speed of 90km/h. At the same time, a bus travelled from Town B to Town A at an average speed of 60km/h. If the distance between Town A and Town B was 600km, what time would they pass each other?

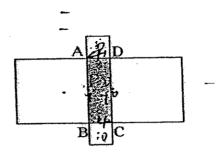
43. There were 20 questions in a Mathematics Quiz.
5 marks were given for each correct answer.
2 marks were deducted for each wrong answer.
Cindy answered all the questions and scored 65 marks.
How many questions did she answer correctly?

Ans:____[4m]

44. Alex, Benjamin and Charlie were given some funfair tickets to sell. Each ticket was sold for \$7. Alex sold  $\frac{2}{3}$  of the tickets. Benjamin and Charlie sold the remaining tickets in the ratio 1:2. Alex sold 40 more tickets than Charlie. How much money did the 3 boys collect altogether?

Ans :_____[4m]

_45.



In the above figure, not drawn to scale, the shaded rectangle ABCD has a perimeter of 20cm. A square is constructed on each of its sides.

If the total area of the 4 squares is  $80 \text{cm}^2$ , find the area of the shaded rectangle ABCD.

At 8am, a van left Town A and travelled towards Town B at 70km/h.

At the same time, a lorry left Town A and travelled in the opposite direction towards Town C. When the lorry reached Town C at 10am, the van was 10km away from Town B.

If the distance between Town B and Town C was 270 km, what was the average speed of the lorry?

Ans: _____[5m]

- 47. Mr Tan earned a fixed monthly salary in the year 2005.
  In November, he spent 25% of his monthly salary.
  In December, he spent 40% more than what he spent in November.
  - (a) If his total expenditure for the 2 months was \$960, what was his salary in November 2005?
  - (b) If Mr Tan received a 5% increase in pay in the year 2006, what would be his new monthly salary?

........

Ans: (a)	(a)	[3m]
	ക	[2m]

Bernard and Emily wanted to buy a birthday present for their mother with their savings. The ratio of Bernard's savings to Emily's savings was 3: 4.
 Bernard and Emily shared the cost of the birthday present in the ratio of 2: 3.
 Bernard used 1/2 of his savings to pay for his share. Emily, after paying for her share, had \$21 left. How much did the present cost?

Ans: _____[5m]

End of Paper

22

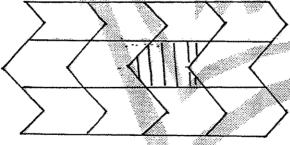


## ANSWER SHEET

371600

NAN HUA PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

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4.1.		28)		
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5.3			26	
6.4		30)	\$230C	]
7.4		<b>~71</b> 1	4:3	
		×	- 244	
8.1		**************************************	4h45n	
9.4		33)	3/10	
10.2		34)	41cm2	<u>}</u>
11.2		35)		
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23.3h12min 24.20%

- 36)4u→36
  Alan→5u→36/4x5=45
  Alan had 45 stamps
  at first.
- 38) 7+8+10+3=28 7x0=0 8x1=8 2x10=20
  - 2x10=20 3x3=9 8+20+9=29+8
  - =37
    a) the total number
    of children in the
    survey is 28.
  - b)the total number
     of siblings that
     the children have
     is 37.
  - 39)water melon→\$n 3 water melon→ \$(nx3)=\$3u Pineapple→<u>\$15-3n</u> 2
    - a)3 water melon cost \$3n.
    - b)1 pineapple cost  $\frac{\$(15-3n)}{2}$

```
- 40)3 units<del>-)</del>6kg
     7 units > 14kg
     17kq-14kq=3kq
     The mass of the empty tank is 3kg.
 41)90/100=$5.40
     4-5→$5.40
                        25.40
     5-6→$10
                          2
                                =$12.70
     6-7→$10
                     Each of them paid $12.70
        -$25.40
  42)90km/h+60km/h
     =150 \, \text{km/h}
     T>D
       7 →600
            150
    8.30
                  12.30
   They would pass each other at 12.30 p.m.
  43) total no.of questions→20
   ····I··correct > 5 marks
     1 wrong→2 marks+5 marks
      =7 marks.
    Max.no of points \rightarrow (20x5)=100
    Cindy →65
   Diff→100-65=35
      35/7=5
    Cindy has 5 wrongs
   Correct \rightarrow 20-5=15
   Cindy answered 15 questions correctly.
  44) 4u→40
                         total amount collected→90x7
     1u→10
                           =630
     9u \rightarrow 9x10=90
                        The 36 boys collected $360
     1 ticket <del>)</del>$7
                        altogether.
```

- 45)
- 46)60km/h
- 47)a)1600 b)1680
- 48)\$45

Index				·	
No.		)			



# NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION 2007 PRIMARY 6

#### **MATHEMATICS**

(BOOKLET A)

<b>*</b>		
Name:	(	)
Class: Pr. 6		<del>.</del>
Date: 21 August 2007		

Booklet A	/ 20
Booklet B	/ 80
TOTAL	/ 100

Parent's Signature & Date

Total Time for booklets A and B: 2 hour 15 minutes

### **INSTRUCTION TO CANDIDATES**

- 1. Write your Index Number in the boxes at the top right-hand corner.
- Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.

#### Section A (20 marks)

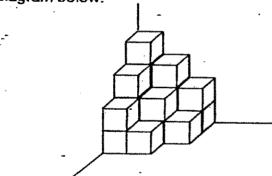
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, 4 options are given. Only one of them is correct.

Make your choice (1, 2, 3 or 4). Shade the correct oval in the optical answer sheet.

- 1. 4 hundreds, 3 tenths and 5 thousandths is _____
  - (1) 400.305
  - (2) 400.350
  - (3) 430.005
  - (4) 430.500
- 2. What is the missing number in the box?

$$\frac{2}{3} = 10 \times \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} \times \boxed{\phantom{0}}$$

- (1)8
- (2)6
- (3) 5
- (4) 4
- 3. Sally stacked some identical cubes in a corner of the room as shown in the diagram below.



How many cubes did Sally use?

- (1) 10
- (2)11
- (3)17
- (4) 18

- 4. Adrian has \$q. Ben has thrice as much as Adrian. John has \$4. How much do the three boys have altogether?
  - (1) \$q + 7
  - (2) \$q + 12
  - (3) \$3q + 4
  - (4) \$4q + 4
- 5. Find the value of  $6 + 12 + 3 \times 2$ 
  - (1) 3
  - (2) 12
  - (3) 14
  - (4)20

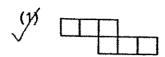
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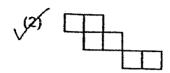
6. A fruit seller sells apples at 4 for \$1.50. How much do I have to pay for 48 apples?

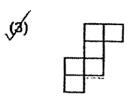
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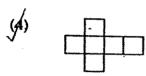
- (1) \$16.50
- (2) \$18.00
- (3) \$19.50
- (4) \$21.00

7. Which of the following is <u>not</u> the NET of a cube?



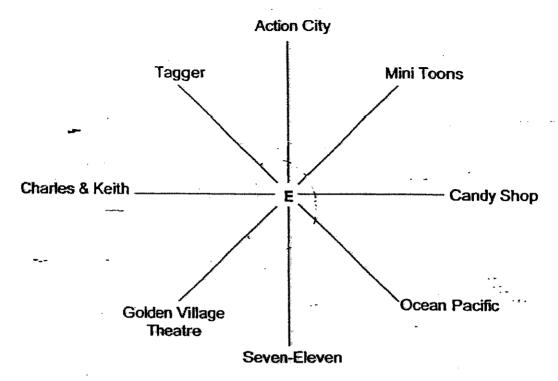






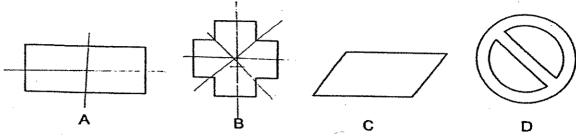
- 8. Town A and Town B were 300 km apart. A car travelled from Town A to Town B at 65 km/h. A truck travelled from Town B to Town A at 55 km/h. They started at the same time. How long will it take them to meet?
  - (1) 2 h
  - (2) 2 h 15 min
  - (3) 2 h 30 min
  - (4) 2 h 45 min

9. Siewlian is standing at a point marked 'E' in the figure below. She is facing Golden Village theatre. Which place will she face when she turns 270° anti-clockwise?



- (1) Tagger
- (2) Candy Shop
- (3) Ocean Pacific
- (4) Charles & Keith
- 10.  $\frac{1}{5}$  of Robert's money is  $\frac{3}{4}$  of Peter's money. Find the ratio of Peter's money to the total sum of money.
  - (1) 1 : 9 "
  - (2) 4 : 15.
  - (3) 4:19
  - (4) 15 : 9

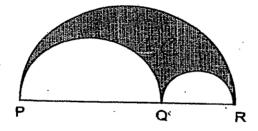
11. Which figure(s) below has exactly 4 lines of symmetry?



- (1) B only
- (2) B and C only
- (8) A and D only
- (A) A, C and D only

12. The figure is made up of 3 different semi-circles. The ratio of PQ: QR is 2:1. Given that the length of PQ is 42 cm, find the perimeter of the shaded region.

[Take 
$$\pi = \frac{22}{7}$$
]



- (1) 132 cm
- (2) 174 cm
- (3) 198 cm
- (4) 306 cm

)

13.	After giving Tom \$1 Tom. How much mo	5 and spending an ore money than To	other \$10, m did Jack	Jack had as muc have <u>at first?</u>	th money as
	(1) \$5 (2) \$25 (3) \$30				
	(4) \$40	18	;		(

- 14. Jane had 50 more Singapore stamps than Malaysian stamps. After giving away 30 stamps of each type, his collection of Malaysian stamps becomes 50% of his collection of Singapore stamps. Find the total number of stamps he has left.
  - (1) 110 (2) 150 (3) 160 (4) 170
- 15. A lorry left Town X for Town Y at 12 p.m., travelling at an average speed of 50 km/h. At 3 p.m., a car also left Town X for Town Y. If the car took 2 hours to catch up with the lorry, find the average speed of the car.
  - (1) 75 km/h
  - (2) 115 km/h.
  - (3) 125 km/h
  - (4) 150 km/h ·

#### NAN HUA PRIMARY SCHOOL

# PRIMARY SIX PRELIMINARY EXAMINATION 2007

#### . MATHEMATICS

#### **BOOKLET B**

Marks:

/ 80

Name:

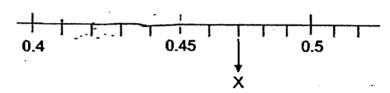
Class:

P6___

#### **SECTION B**

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16.



What is the value of the point marked 'X'? (Give your answer as a decimal)

Answer:

17

What is the value of ♥?

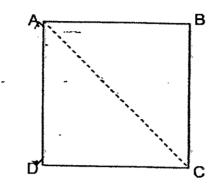
Answer:

7

18. Simplify 4a - 5 + a + 9

Answer	:	

19. ABCD is a square. The length of AC is 14 cm. What is the area of the square?



Answer∉ cm²

20. The average of 7 consecutive numbers is 84. Write down the smallest and the biggest numbers.

Answer: Smallest ______

21. Sue had \$15 and she wanted to buy a few mugs.

If each mug costs \$1.20, what was the maximum number of mugs she could buy?

Answer: _____mugs

What is the maximum number

22. A wooden block is 81 cm long, 50 cm wide and 30 cm tall. How many 3-cm wooden cubes, can be cut from the wooden block?

that

unswer:______3-cm cubes-

23. A movie started at 11.37 p.m. and lasted for 170 minutes. What time will the movie end? Give your answer in 24-hour clock.

Answer.____

24. Sammy cycled for  $1\frac{1}{2}$  hour at 20 km/h and then ran for 30 minutes at 9 km/h. Find his average speed for the whole journey.

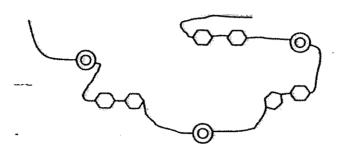
Answer: km/k--

25. Alice and Benny cycled away from each other at 20 km/h and 18 km/h respectively. How far apart would they be after 20 minutes?

Ynswer: km

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

26. Theresa made a necklace of 54 beads. The beads are of two different shapes and form a repeated pattern. The picture below shows part of her necklace. How many beads does she need?



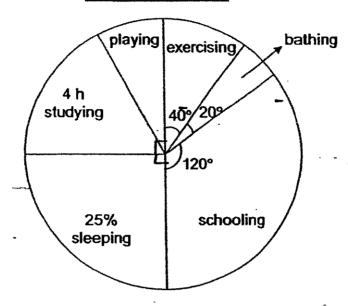
Answer : ______ beads [2]

27. Tap A can fill a tank in 4 minutes. Tap B can fill the same tank in 6 minutes. If both taps are turned on at the same time, how long will it take to fill the tank?

Answer: _____ minutes [2]

28. The pie chart below shows how Jonathan spent his time on a particular day.

Time Spent in a Day



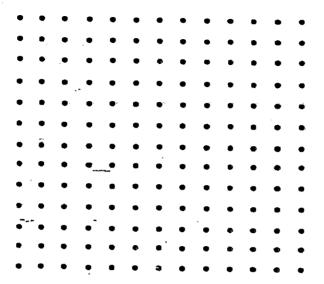
How many hours did he spend playing?

_					
Answer:-		~		. h	121

29. Joyce, who worked as a salesgirl, was paid \$p an hour on weekdays and Saturday, and \$12 an hour on Sunday.
How much was she paid for working 6 hours a day for a week? (including Sunday)....

Answer : \$_____[2]

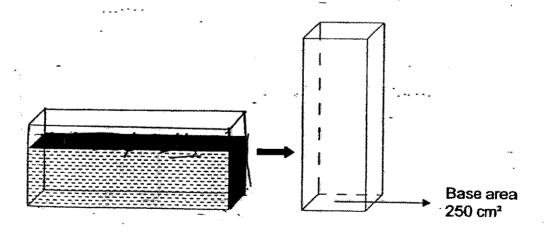
30. Martin arranges some coins to form a square with 13 rows and 13 columns. He then rearranges the coins to form two squares of different sizes. Given that each row of the bigger square has 7 more coins than the smaller square, find the number of coins in each row of each new square formed.



Answer	: New	square	1	[1	
				 	ı

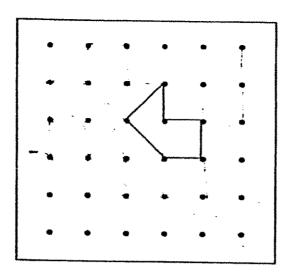
New square 2 [1]

31. A rectangular tank, 20 cm long, 25 cm wide and 10 cm tall, is  $\frac{3}{4}$  filled with water. When 4 litres of water was poured into the tank, some water overflowed and was collected in an empty rectangular container. Find the height of the water level in the container.



Answer : _____cm [2]

32. Draw 5 more unit shapes on the grid provided to show tessellation. [2]



33. The figure below shows a rectangle divided into 4 parts A, B, C and D. The areas of A, B and C are in the ratio 8:21:4 respectively. C is a square with an area of 16 cm². Find the area of rectangle D.

Α	В
C.	D 

Answer	:	cm²	ľ	2
	-	 G	Ľ	۰.

34. The table shows the number of books borrowed by pupils in a certain week from the school library.

Number of books	0	1	2	3	4	5
Number of children	12	6	5	3	4	6

What was the total number of books borrowed by the pupils?

Answer: ______ books [2]

35. At a fruit stall, the ratio of the number of apples to the number of pears is 5:8. If 60% of the pears are sold, what percentage of the apples must be sold so that there will be an equal number of apples and pears left?

Answer:____%

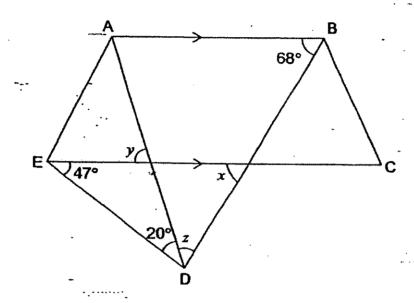
#### Section C

For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is show in brackets [ ] at the end of each question or part-question.

(50 marks)

- 36. In the figure, not drawn to scale, find
  - (a) ∠x
  - (b) ∠y -
  - (c)  $\angle z$

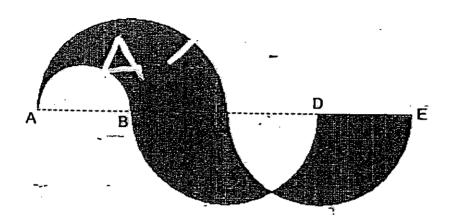


Answer : (a) 
$$\angle x =$$
 [1]

(b) 
$$\angle y = ____[1]$$

37. In the figure below, AE is a straight line of 8 cm. B is the mid-point of AC, C is the mid-point of AE, and D is the mid-point of CE. Find the perimeter of the shaded figure.

[Take  $\pi = 3.14$ ]

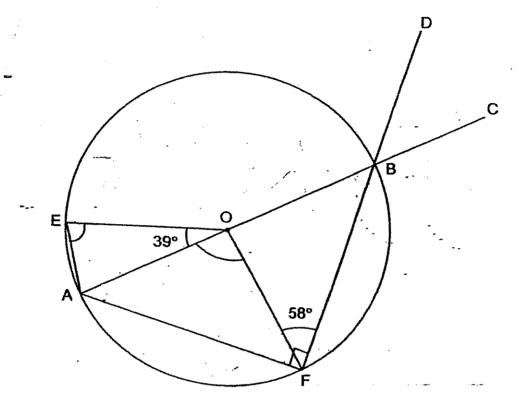


Answer : _____[3]

38. In the figure, not drawn to scale, ABC and DBF are straight lines. Point O is the centre of the circle.

Find

- (a) ∠AEO
- (b) 4AOF



Answer : (a)	[1
(b)	

39. There were 10 word problems in a Mathematics Competition.
5 points were awarded for each correct answer and 3 points were deducted for each incorrect answer.

If Army answered all 10 word problems and scored 26 points, how many word problems did she answer correctly?

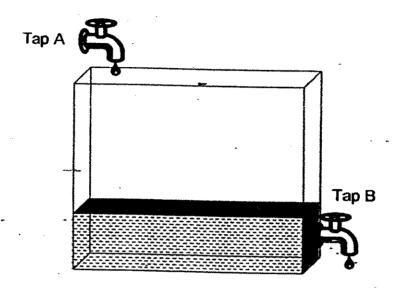
Answer : _____ [3]...

40. Mr. Lee worked out a saving plan for Janet.
For every \$4 Janet saved, he would top up \$2 into her bank account.
After some time, the amount saved in Janet's account was \$252.
How much of this amount was contributed by Mr. Lee?

Answer : _____[3]

41. Tap A would fill the tank with water at the rate of 20 t/min. Tap B would drain the water from the tank at 15 t/min.

At first, tap A was turned on for 6 minutes. Then tap B was turned on. Another ten minutes later, how much water was there in the tank? (give your answer in litres)



\nswer	•		[3	7
4124461			1.7	

42. Benjamin spent  $\frac{3}{7}$  of his money on 6 toys and 6 erasers, and  $\frac{1}{4}$  of the remainder on 10 cards. Each eraser cost  $\frac{1}{7}$  as much as a toy. Each card cost \$0.30 more than an eraser. How much money did Benjamin spend on each toy?

Answer: [4]

43. Town E and Town F were 240 km apart. Jason left Town E at 9.00 a.m. traveling at an average speed of 60 km/h. Karen left Town E some time later than Jason and overtook him at 11 a.m. Karen's traveling speed was 90 km/h.

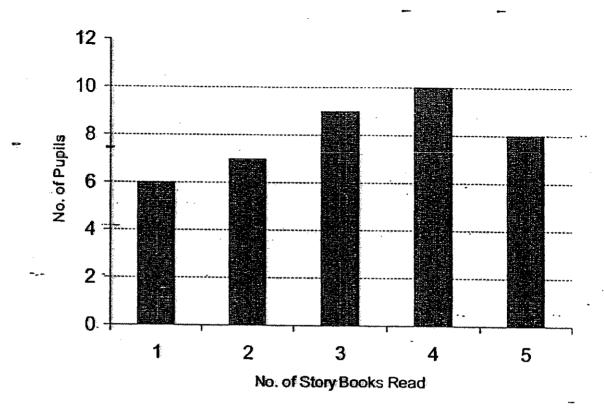
(a) At what time did Karen leave Town E?

(b) How long had Karen rested when Jason finally reached Town F?

Answer	-	(a)	[2]

(b) [2]

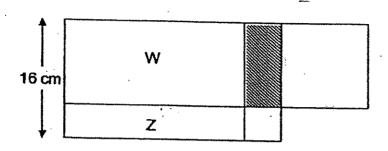
44. The graph below shows the number of story books read by the pupils in a class.



- a) What was the total number of pupils in the class?
- b) What fraction of the pupils in the class read more than 3 story books?
- c) What is the total number of story books read?

Answer: (a)	matikanistanistanistationaan mananaan saata misentä selvatikasitatiotaisiassa saat	[1
(b)	* -	[1
(e)		[2

- 45. The figure is made up of 3 rectangles and 2 squares. The bigger square has an area of 144 cm².
  - (a) Find area of the shaded rectangle.
  - (b) If area of rectangle Z is 5 times area of small square, find area of rectangle W.



Answer : (a) _____ [2

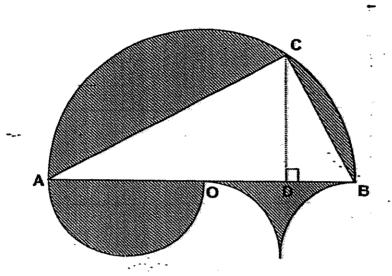
(b)_____[3]

46. The figure below is made up of 2 semi-circular arcs and 2 quarter arcs. A triangle ABC is drawn in the bigger semicircle. AB is 28 cm. O is the mid-point of AB. CD is 10 cm.

Find

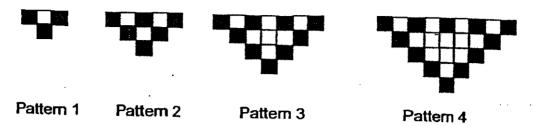
- (a) the perimeter of the figure
- (b) the area of the shaded parts

[Take 
$$\pi = \frac{22}{7}$$
]



Answer	:	(a)	[2]
MISMEL	٠	(9)	ŲŹ,

__47. Study the patterns formed by black and white tiles below and answer the following questions.



a) Using the series of patterns above, complete the table below.

	I	-	
Pattern	No. of Black Tiles	No. of White Tiles	Total No. of Tiles
1	3	1	4
2	6	3	9
3	9	7	16
4	12	13	25
5		· · · · · · · · · · · · · · · · · · ·	

[3 m<u>ar</u>ks]

b) Find the total number of tiles in Pattern 10.

•			
Answer	•	ro	1
4131161	*	_	ı
		ь—.	2

- 48. There are some oranges in 3 boxes, A, B and C. 40% of the number of oranges in Box A is equal to 25% of the number of oranges in Box B. The number of oranges in Box C is  $\frac{1}{3}$  of the number of oranges in Box B.
  - a) Express the number of oranges in Box C as a fraction of the number of oranges in Box A.
  - b) If  $\frac{1}{2}$  of the oranges in Box B are taken out and placed in Box C, there will be 36 oranges left in Box B. How many oranges are there in Box C?
  - c) What is the total number of oranges?

Answer : (a)	[2
(b)	[2
(c)	[1

~ the end ~



NAN HUA PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (2)

```
1.
    1
              32).
 2.
 3. 4
                  D \rightarrow 4 \times 10 \frac{1}{2}
                      4x 2/2=42
                   (1x6) + (2x5) + (3x3) + (4x4) + (5x6)
                            16+30=71 books
 16.0.4
 17.13
 18.5a 4
 19.98cm2
 20. Smallest 81 Bigge
 21.12 mugs
 22.43204
 23.0227
· 24.17 ¼ km
 25.12 2/3 万
 26.36
 27.2 2/5 mir
 28.2
 29.$(72+36p)
 30.1)12
    2)5
 31.11cm
```

```
35)apples:pears
     5
    25
   60% Sold, 40% left
             40/100x4=16
   25-16=9
   %=9/25x100=36%
   The percentage is 36%
```

- 36) a). ZX=68°

  - b) \(\alpha\) = 180 \(\cdot\) = 93=67° c) \(\alpha\) = 180 \(\cdot\) (67+68) = 45°
- 37) 3 1 4 2

Per-6.28x3+2+3.14

=18 84+5444

=23.98cm

The perimeter of the shaded figure is 2

38) a) 
$$\frac{180-39}{2}$$
 =  $\frac{141}{2}$  = 70

- a)∠AEO 🗓
- b) 28+28=116
  - b)∠AOF is 116°
- 39) She answered 7 word problem correctly.
- 40)\$4x40=\$160+8=\$168 \$2x40=\$80+4=\$84 \$84 was contributed by Mr.Lee.

There was 1701 of water in the tank.

42) He spend \$3.50 on each toy.

```
43)a)9.40am
```

b) 40 min

#### 44)a)40

- b) 10+8=1818/40=9/20
- The fraction is 9/20
  - c) (1x6) + (2x7) + (3x9) + (4x10) + (5x8)=6+14+27+40+40 =20+27+80=47+80=127
- 45) shaded = 12x4=48 cm²

W=20x12=240cm2

- a) The area is 48 cm2
- b) The area of rectangle W is 240 cm2
- 46)a) The perimeter is 88 cm
  - b) The area is 266 cm2
- 47) Pattern 10=11x11=121
- 48)a)The fraction is 8/15
  - b) There are 24 oranges in Box C
  - c) The total number is 141.

---end---

*. ** * * .

-----

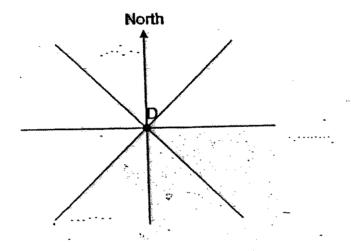
# NANYANG PRIMARY SCHOOL FIRST CONTINUAL ASSESSMENT 2007 MATHEMATICS PRIMARY SIX

Name:	- ·		(	)	Marks :	/100
Class: Pi	rimary	6 (	)		Parent's Signatu	re: -
Date: 2 N	March	2007			*	
Duration	ı: 2 h	ours 15 minute	es		•	
Booklet	A	· .				
For each	n ques our che	tion, four optio pice (1, 2, 3 o	ns are gi	ven. On	ns 11 to 15 carry e of them is the c val (1, 2, 3 or 4)	orrect answer.
Answer	Sheet	•		. *** . * #		(20 marks)
						. ****
1 V	What is	the missing r	umber in	the box?	•	
. 6	3 <b>420</b> 1	103 = 6 000	0000 +	400 000	) + _ +	100 + 3
(	(1)	20				-
(	(2)	200		,	-	•
(	(3)	2000		٤	-	+
-1	(4)	20-000				•

		· ·	
2	What is the value	of the digit 6 in	831.296?

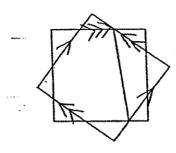
- (1) 6 ones
- (2) 6 tenths
- (3) 6 hundredths
- (4) 6 thousandths
- A piece of string is 3 m long. Three 40-cm pieces are cut from it. What is the length of the remaining string?
  - (1) 0.4 m
  - (2) 1.2 m
  - (3) 1.8 m
  - (4) 2.6 m
- In a primary school, 32% of the pupils travel to school by car. 20% of the pupils walk to school and the rest of the pupils travel to school by bus. If 288 more pupils travel to school by bus than by car, what is the total number of pupils in the school?
  - (1) 600
  - (2) 900
  - (3) 1800
  - (4) 2400

- Mandy is w years old. Linda is 3 times as old as Mandy. Sally is 4 years older than Linda. How old was Sally 5 years ago?
  - (1) (3w + 9) years old
  - (2) (3w-1) years old
  - (3) (w + 12) years old
  - (4) (w + 2) years old
  - Ahmad is standing at the point marked D in the figure below. He is facing southwest. In which direction will he face if he turns 135° clockwise?

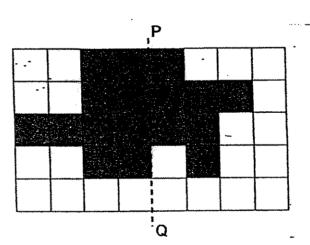


- (1) East
- (2) North
- (3) Southeast
- (4) West

7 How many pairs of parallel lines are there in the figure?

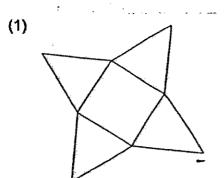


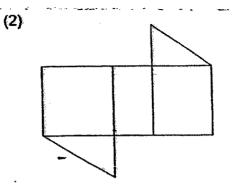
- (1) 5
- (2) 6
- (3) 8
- (4) 4
- There are 40 identical squares shown below. 17 squares are shaded. How many more squares must be shaded so that the dotted line PQ is the line of symmetry for the shaded figure?

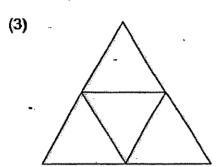


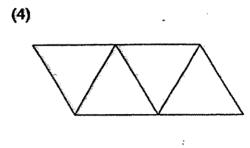
- (1) 5
- (2) 2
- (3) 3
- (4) 4

## .9 Which of the following is not the net of a solid?

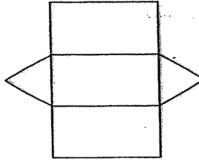






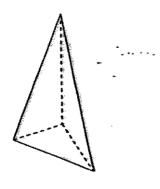


## 10 The figure shows the net of a solid.

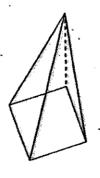


Which of the following solids can be formed by the above net?

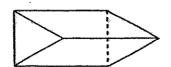
(1)



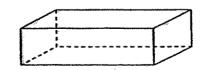
(2)



(3)



(4)



- The average mass of 3 boxes is 10 kg. Boxes A and B have the same mass. The mass of Box C is  $\frac{1}{2}$  of the mass of Box A. What is the mass of Box C?
  - (1) 2 kg
  - (2) 6 kg
  - (3) 10 kg
  - (4) 12 kg
- Edgar's salary is  $\frac{3}{4}$  of Julian's salary. Julian's salary is  $\frac{1}{2}$  of Thalia's salary. Express Thalia's salary as a fraction of Edgar's salary.
  - (1)  $\frac{3}{8}$
  - (2)  $\frac{2}{3}$
  - (3)  $\frac{3}{2}$
  - (4)  $\frac{8}{3}$
- Bag A weighs  $4\frac{4}{5}$  kg. Bag B is  $\frac{3}{8}$  kg heavier than Bag A. What is the total mass of the two bags?
  - (1) 4.425 kg
  - (2) 5.175 kg
  - (3) 9.225 kg
  - (4) 9.975 kg

- 80% of the marbles in a container were blue and the rest of the marbles were red. Julian removed 25% of the blue marbles and  $\frac{5}{8}$  of the red marbles from the container. What is the ratio of the number of red marbles to the number of blue marbles left in the container?
  - (1) 1:8
  - (2) 3:22
  - (3) 5:8
    - (4) 5:22
  - Mrs Lim wanted to make a drink for her friends. The table below shows the proportion of water and orange syrup used.

Amount of water in litres	8	16	. 32
Amount of orange syrup in litres	2	4	8

Using the same proportion, what is the volume of the drink she would make if she used 52 litres of water?

- (1) 28*1*
- (2) 65 *l*
- (3) 80 l
- (4) 981

tated.	· · · · · ·	·:	•			(10 marks)
6 F	ind the value o	of 4 + 5 × 8	- (8 + 7) ÷ 3	3		
	<b>-</b> .	,				
		•	1	Ans:		
17	Express 60 km	14 m in me	eires.	_		
				**************************************		
<b>400-</b>	-	-		Ans: _	. •	1
18	The mass of		.0 g when r		ff to one d	

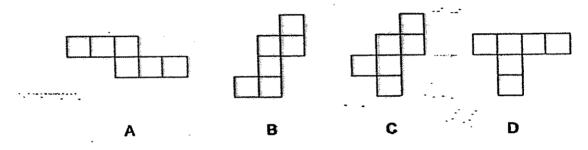
Mary spilled some coffee on her results slip as shown below. Part of her English and Science marks cannot be seen:

IP .
Score
80
90 Ac
1.73WK

Her average score for the four subjects is 78. How many marks did she score for Science?

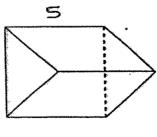
Ans:	
------	--

20 Which of the following is not a net of a cube?

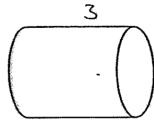


Ans: _____

21 How many more faces does Solid A have than Solid B?



Solid A



Solid B

Ans:

22 Arrange the following fractions from the largest to the smallest:

 $\frac{18}{100}$ ,  $\frac{1}{8}$ ,  $\frac{9}{49}$ ,  $\frac{4}{25}$ 

Ans: _____

23 Tom. and Teck Meng spent 1 h 40 min on a project. They started working on the project at 12.35 p.m. At what time did they complete the -project?

Ans:

Mrs Koh's monthly income is \$3000. She spends \$1740 a month and saves the rest. What percentage of her income does she save each month?

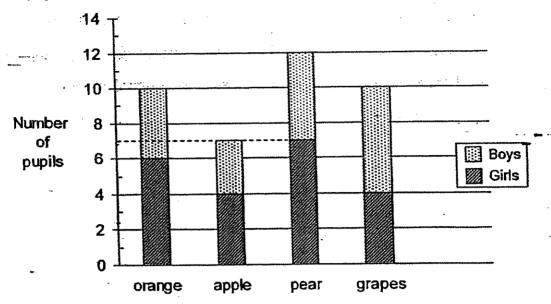
Ans: ______ %

The length of a rectangle is 12p cm. Its breadth is  $\frac{1}{4}$  of its length. What is the perimeter of the rectangle in terms of p in its simplest form?

Ans: _____ cm

<del></del>		· .	(20 marks)
6		filled with cooking oil weighs 1 kg. To g. What will the mass of the bottle	
	•	•	-
	•	<b></b>	•
	•	· .	
	-	• • •	
			·
	•		
			•••
	•	Ans:	
		``	
7	coins and 20-cen	his piggy bank. The coins were a minute coins. There were 10 more 10-were there in the piggy	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
<b>7</b>	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha
7	coins and 20-cen	it coins. There were 10 more 10-	cent coins tha

A survey was conducted to find out the favourite fruit of a group of pupils. The table below shows the results.



How many more girls than boys took part in the survey?

•
*

29 What is the missing number in the box?

$$\frac{7}{12} + \frac{9}{10} \div 3 \times \frac{5}{18} =$$
  $\times \frac{1}{6}$ 

_		***
Ans:		
/ wio.		-
	· ·	

Miranda has 5 times as many stickers as Jean. The number of stickers that Ariel has is  $\frac{2}{3}$  of the number of stickers that Miranda has. What is the ratio of the number of stickers that Jean has to the number of stickers that Ariel has? Give your answer in its simplest form.

Ans: _____

Sean and Nick shared some marbles in the ratio 1:2. When Nick gave some marbles to Sean, the ratio of the number of marbles that Sean had to the number of marbles that Nick had became 5:4. If Nick had 36 ...... marbles in the end, how many marbles did Nick give to Sean?

Ans:

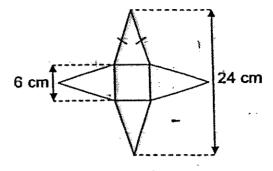
Bryan and John shared \$27 in a certain ratio. If each boy received \$4 more, the ratio of the amount of money that Bryan had to the amount of money that John had became 3 : 4. How much money did Bryan have at first?

Ans: \$_____

Muthu had *m* stamps. Ryan had half the number of stamps that Muthu had but 8 stamps less than what Mingyao had. How many stamps did the 3 boys have altogether? Express your answer in terms of *m* in its simplest form.

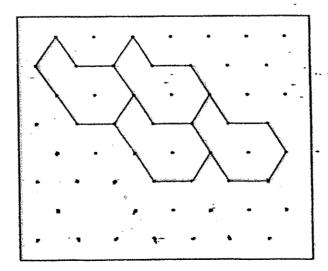
Ans:

The figure below shows a square and four identical isosceles triangles. Find the total area of the figure.



_	*	7
Ans:		cm-

The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing <u>four</u> more unit shapes in the space provided within the box.



ame	e:		V ₂		)	Class	s: Pr 6 (	)	
6 C	A1 2007	:		•					
ach he r	question number o	36 to 48, so and write your marks ava	our answei ailable is sl	s in the s	paces pi	rovided	t the end		1
	* 			···········	w	<u> </u>	<u></u>	•	
6	Mr Loh	bought 5 d	d urians and	P 3 pineapp	oles for \$	52 <i>y.</i> Ea	ch dunai	n cost \$5	j.
•	a) Fir	nd the cost of simplest for	of 1 pineap rm.	de. Expre	ess your	answe	r in terms	of y in	
	b) Gi	ven that y =	17, how m	uch would	d it cost (	to buy	6 pineap	ples?	
		• .					ne nagrama		
							,		
		^	•				in the second second		
						·-			
		٠			-				
	-								
			es au			-			
,									
					-		•		
					ıns: (a)			r	[1]

- Machine X can fill 180 bottles-with detergent in 1 hour while Machine Y can fill twice the number of bottles in  $1\frac{1}{2}$  h.
  - (a) Which machine works at a faster rate?
  - (b) How long will it take both machines, working together, to fill up 1050 bottles?

Ans:	(a)	[1]
	(b)	[2

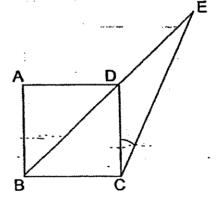
Gerald used 60% of his money to buy 12 buns and 3 curry-puffs. Each curry-puff cost twice as much as a bun. How many curry puffs could he buy with the rest of his money?

Ans: [3]

A blouse and 3 T-shirts cost \$128, 4 blouses and 5 T-shirts cost \$323. How much did Mrs Tang have to pay for 21 T-shirts?

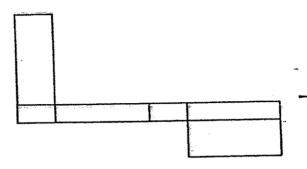
	*	
Ans:	:	[3]

40. In the figure below, ABCD is a square and BE is a straight line. The size of ∠EBC is three times the size of ∠BEC. Find ∠DCE.



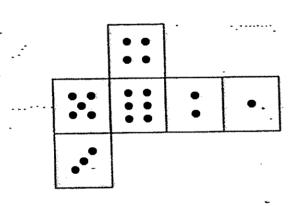
Ans: [3]

41 (a) The figure below shows the net of a solid. Name the solid that can be formed from the net.

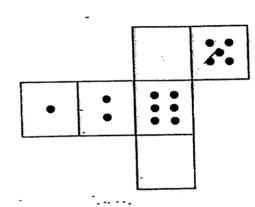


Ans: [1]

(b) Nets A and B can be used to form the same cube. Draw the correct dot patterns on the 2 blank faces of Net B. [2]

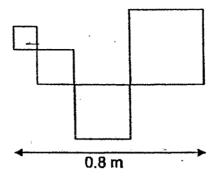


<u>Net A</u>



Net B

42 Alice had 2.8 m of wire. She wanted to make a design of 4 squares in a loop as shown below. However, the wire was not long enough.



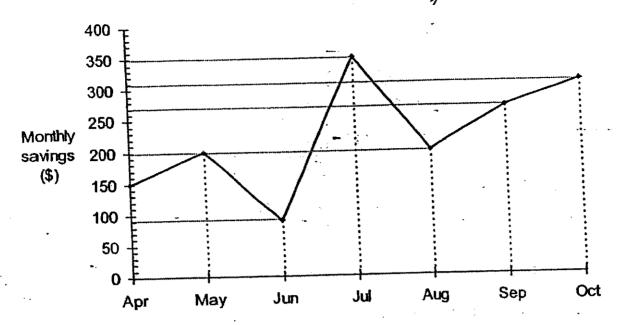
- (a) How much more wire did Alice need?
- (b) If 1 m of the wire cost \$2.20, how much would it cost to make 2 similar designs?

Ans:	(a)		[2	]
------	-----	--	----	---

- 43 Mr Lim earned \$3 for each gift hamper he sold. For every 12 hampers sold, he earned an extra \$5.
  - (a) How much money would Mr Lim earn if he sold 85 hampers?
  - (b) How many hampers must be sell in order to earn \$194?

Ans:	(a)	[2]

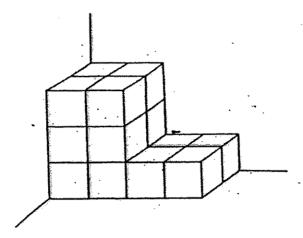
The graph below shows Miss Lim's monthly savings from April to October. Her average savings from March to September is \$200.



- (a) How much did Miss Lim save in March?
- (b) Express her savings in July as a fraction of her total savings from May to August. Give your answer in its simplest form.

Ans:	(a)	[2]

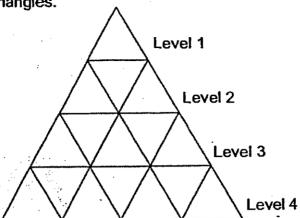
45 The solid below is made up of 2-cm cubes.



- (a) Find the volume of the solid.
- (b) Find the total surface area of the solid.
- (c) The whole solid is dropped into blue paint. After it is removed, it is cut up into 2-cm cubes. How many cubes will have only two faces painted blue?

Ans:	(a)		[2
		A STATE OF THE STA	

The figure below shows a multi-level pyramid. Each level is formed by identical small triangles.



- (a) How many small triangles are needed to form Level 6?
- (b) If 1137 small triangles are needed to form a particular level, which level would that be?
- (c) What is the total number of small triangles that are needed to build a 25-level pyramid?

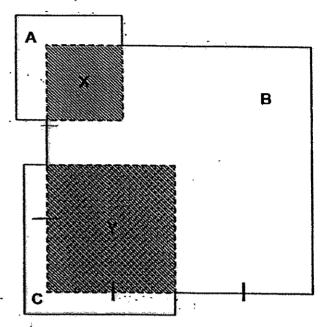
Ans:	(a)	 [1]

- (b) Level _____[2]
- (c) [2]

3

In the figure below, 3 squares A, B and C overlap to form Squares X and Y.

The perimeter of Square X is 20 cm.  $\frac{5}{16}$  of Square B is shaded. The areas of Squares A, B and C are in the ratio 4:25:9 respectively. Find the total perimeter of the unshaded regions.



Ans:		[5
------	--	----

Joshua had  $\frac{2}{3}$  as many game cards as Nat. After Joshua bought another 20 game cards and Nat lost 29 game cards, Joshua now has  $\frac{4}{5}$  as many game cards as Nat. How many game cards did Nat have at first?

Ans: _____[5]

**END OF PAPER** 

Setters:

Mdm Magdalene Wee

Mrs Lily Lee



### ANSWER SHEET

NANYANG PRIMARY SCHOOL - PRIMARY 6 MATHEMICS 2007 CONTINUAL ASSESSMENT (1)

```
26) 1kg-250g=1000-250g
1.4
                  $≟750g
2.4
                  750÷2=375g
3.3
                  375g+250g=625g
                27)Alternative:10 x10=100 (more)
                                $8.50-$1=$7.50
                                 (1set of 10 +20 )=30
8.1
                                    50 90 30
                                50+10=60 coins.
                          7+4) = (4+3+5+
                 29)4
                 30)3:10
     68 marks
      more faces
22. 9/49, 18/100, 4
24.
25.
     32p
```

```
31)4 units→36
   1 unit \rightarrow9
   2 units→18
Alternative:S:N.
             5:4
       ₹36÷4=9
        5x9 = 45
        45+36=81
         4-36=18 marbles.
     7+$4+$4=$35
      hits+4 units=7 unit
33% (2m+8) stamps
34)24cm-6cm=18cm
   18cm: 2=9cm (height of \Delta)
    6cmx6cm=36cmx(area of \Box)
   と x9cmx6cm=27cmx(area of A)
   27cm2x4=108cm2(total area o
   108cm2+36cm2=144cm2
35)
36)a)$(2y-25)
    b) $17x2 = $34
      $34-$25=$9(3p)
      9x2=$18
```

```
37)a) Machine Y
   b) 2 ½ hours
38)6 curry puffs
99)1B+3TS≯$128
    4B+12TS 本等572
       2-$923=$189 (7TS)
     rs}$189
}75≯$567
            45° (*BDGBGERB
             5°=135′
                 ±135°
42) a) 0.8mx4-3.2m (amount
       3.2m-2:8m=0:4m
    b) 3.2mx2=6.4m
       1m \rightarrow $2.20
       0.2m \rightarrow $0.44
       6.4m\rightarrow$14.08
 43) a) 85 \div 21 = 7R1
       7x$5=$35
```

\$3x85=\$255

\$255+\$35=\$290

```
43)
   b) 12x$3=$36
     $36+$5=$4I (12 hampers)
     194-41=4R $30
     12X4=48
     30 \div 3 = 10
     48+10=58 Anampers
    $2.00x4=$1400 (march to September
     $.0150+200+90+350+200+270)
     $1400-$1260-$140
     $ (200+90+350+200) =$840
     $350/$840=5/12
45)a) 2cm 2cm 2cm 8cm3
     8cm3x16≡128cm3
   b) 2 cmx 2 cm=4 cm2
     4级4cm2=176cm2
   c) 6 eubes
46)a) Il small triangle
   b) Level 569
   c) 625 small triangles
47)1m
48)324 game cards
```



### NANYANG PRIMARY SCHOOL

## FIRST SEMESTRAL EXAMINATION 2007

# PRIMARY 6 MATHEMATICS

**DURATION: 2 HOURS 15 MINUTES** 

Booklet A	<i>l</i> 20		
Booklet B	/ 30	Total:	/ 100
	/ 50		
Name:		)	· ·
Class: Primary	<b>6 (</b> )		
Date: 10 May 2	2007		-
Parent's Signatu	ıre:		

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

#### **Booklet A**

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

- A family participated in a night tour around Singapore which ended at 01 30. The night tour lasted  $2\frac{1}{4}$  h. At what time did the night tour start?
  - (1) 03 45~
  - (2) 11 15
  - (3) 23 05
  - (4) 23 15
- 2 Mark and Simon are 11 and 15 years old respectively. What will be the ratio of Simon's age to Mark's age 9 years later?
  - (1) 3:1.
  - (2) 5:6
  - (3) 6:5
  - (4) 15:11
- 3 Express 100 m as a percentage of 2.5 km.
  - (1) 4%
  - (2) 25%
  - (3) 40%
  - (4) 250%

4 What is 19% of \$380?

- __ (1) \$5.00
  - (2) \$50.00
  - (3) \$72.20
  - (4) \$722.00

5 Miss Chan can type 35 words per minute. At this rate, how long will she take to type a report of 1050 words?

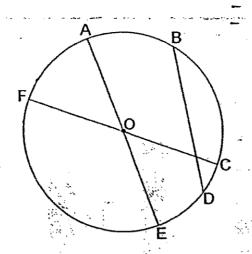
- (1) 30 min
- (2) 35 min
- (3) 40 min
- (4) 45 min

6 Simplify 4y + 3 - 2y - 4 + 6y

- (1) 4y-1
- (2) 8y 1
- (3) 8y + 7
- (4) 12y + 7

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7 The figure below shows a circle with centre marked O. AE, FC and BD are straight lines.



Which of the following pairs correctly shows its radius and diameter?

	Radius	Diameter
(1)	BD	AE
(2)	OE	····FC
(3)	AE	FC
(4)	₩ A <b>O</b>	BD

Which figure below is a symmetric figure?



(1)



(2)

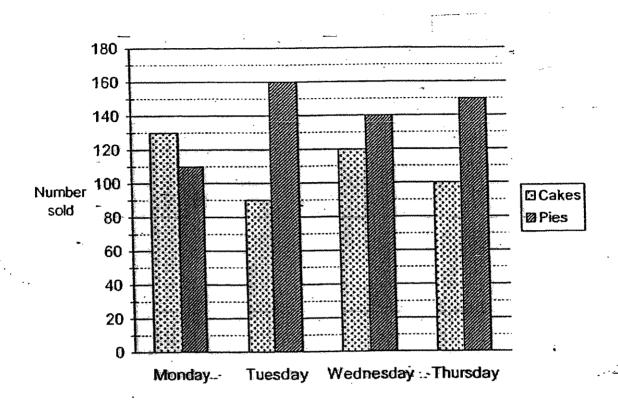


(3)



(4)

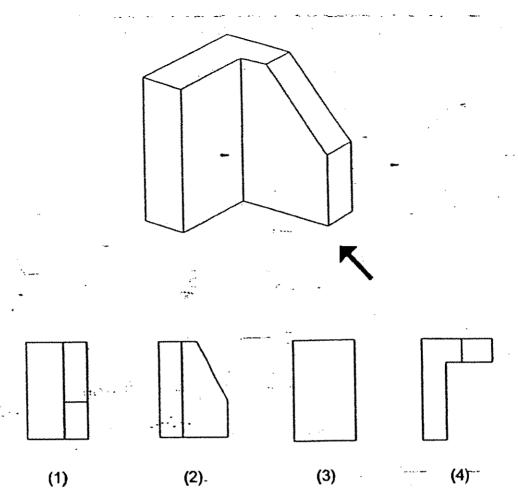
9 The graph below shows the number of cakes and pies sold at a confectionery shop from Monday to Thursday.



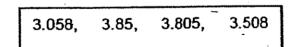
On which day were the most number of cakes and pies sold?

- (1) Monday
- (2) Tuesday
- (3) Wednesday
- (4) Thursday

The figure below shows a solid. Which of the following shows the correct view of the solid from the direction of the given arrow?



11 Arrange the numbers in the box below in descending order.

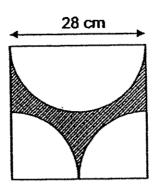


What is the difference between the second number and the last number?

- (1) 0.297
- (2) 0.342
- (3) 0.747
- (4) 0.792

- 12 A ribbon is cut into two pieces. The length of the shorter piece is  $\frac{3}{11}$  of the total length. If the difference in the length of the two pieces is 24 m, what is the length of the longer piece?
  - (1) 33 m
  - (2) 38.4 m
  - (3) 52.8 m
  - (4) 64 m
  - Cathy travelled a distance of 30 km at an average speed of 90 km/h. Then she travelled another 100 km at an average speed of 60 km/h. What was her average speed for the whole journey?
    - (1) 40 km/h
    - (2) 65 km/h
    - (3) 75 km/h
    - (4) 87 km/h

The figure shows a square of side 28 cm, a semi-circle and 2 identical quarter circles.



Find the area of the shaded portion. (Take  $\pi = \frac{22}{7}$ )

- (1) 696 cm²
- (2) 616 cm²
- (3) 476 cm²
- (4) 168 cm²
- A special tool, with a wheel attached to it, was used to measure the perimeter of a rectangular field. It was found that the wheel made a total of 100 complete turns. The diameter of the wheel was 42 cm. Find the length of the rectangular field if the breadth measured 20 m.

(Take 
$$\pi = \frac{22}{7}$$
)

- (1) 673 m
- (2) 112 m
- (3) 92 m
- (4) 46 m

Name: _____(

) Class: Pr 6 (

P6 SA1 2007

### Booklet B

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

16 What is the value of P?

Ans:

17 Express 6 kg 10 g in kilograms.

Ans: _____kg

18. Susan departed Singapore at 09 40. The duration of her flight from Singapore to Tokyo was 7 h 35 min. At what time did she arrive in Tokyo?

Ans:

 $1\overline{9}$  - A baker made some cookies and muffins in the ratio of 4:5. If half of the cookies and  $\frac{2}{3}$  of the muffins were eaten, find the ratio of the number of cookies left to the number of muffins left.

Ans:

Mrs Tan and Mrs Wang shared a sum of money in the ratio of 11:4. What percentage of Mrs Wang's share of the money is Mrs Tan's share?

Ans: ______ %

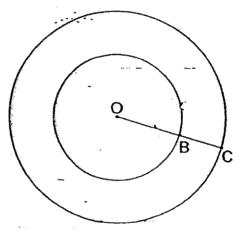
Ali cycled at an average speed of 300 m/min. What distance could be cover in 1.5 h?

Ans: _____ km

A cube with a volume of 64 cm³ is cut into 8 identical cubes. What is the length of each small cube?

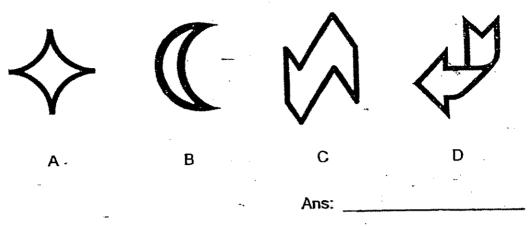
Ans: _____ cm

The figure below shows a small circle and a big circle with the same centre marked O. B is a point on the small circle and C is a point on the big circle. OC is a straight line. The diameters of the small circle and the big circle are 50 cm and 80 cm respectively. What is the length of BC?

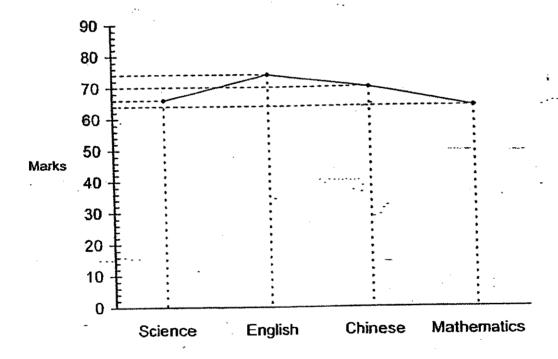


Ans: ____ cm

24 Which of these shapes can tessellate?



The line graph shows the marks scored by Tim in an examination.



In which subject is the score closest to the average score of the four subjects?

Ans: _____

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

The ratio of the number of foreign stamps to the number of local stamps in my album is 7:9. After I had used 30 local stamps, the ratio became 4:3. How many foreign stamps did I have at first?

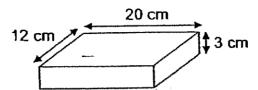
Ans:

Sue bought a total of 380 stalks of roses, carnations and orchids. The number of stalks of roses was  $\frac{4}{5}$  of the number of stalks of carnations.

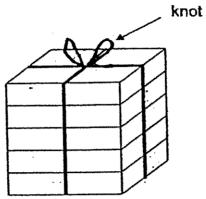
The number of stalks of orchids bought was  $\frac{1}{8}$  of the number of stalks of roses. How many stalks of carnations did Sue buy?

Ans:

28 The figure below shows a box.



Jack placed 5 such boxes on top of one another and then tied them with a ribbon as shown below.



Given that Jack used 25 cm of ribbon to tie the knot, how much ribbon did he use altogether?

	 L
Ans:	all

There are 60 boys and 45 girls in a school band. How many percent fewer girls than boys are there?

Ans: ______ %

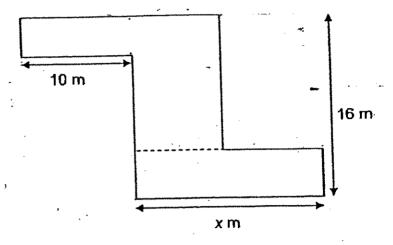
A furniture dealer imported 25 Italian-made sofas at \$1200 each. He sold 10 of them at a profit of 30% and the rest at a discount of \$200 each. What was his overall profit?

Ans-\$

Han Meng receives \$63m from his mother and  $\frac{2}{3}$  as much from his father as his weekly allowance. Each week, he spends \$5m on transport, thrice as much on food and he saves the rest. How much would he save in 5-weeks? Express your answer in terms of m in its simplest form.

Ans: \$_____

The figure below shows a field which is made up of 3 rectangles. The cost of fencing 1 m of the field is \$20. What is the total cost of fencing the field? Express your answer in terms of x in the simplest form.



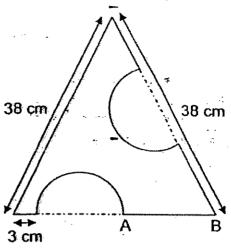
Ans: \$ _____

Kang's clock loses 4 minutes every 2 hours. If the time shown on the clock is 11.00 p.m. now, what time will the clock show 8 hours later?

Ans: _____

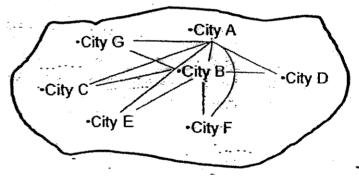
Mary cut out 2 identical semi-circles from a piece of triangular cardboard as shown below. The perimeter of the remaining cardboard is 126 cm and the diameter of each semi-circle is 14 cm; What is the length of AB?

 $(\text{Take }\pi=\frac{22}{7})$ 



_	i i		
Ans:			cm

The map below shows the locations of seven cities. What is the minimum number of roads that need to be constructed so that any 2 cities are linked directly to each other?



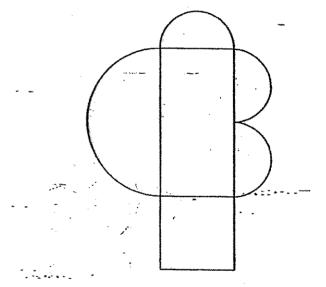
Ans:	-	 	

Jestic	on or part-quest		shown in bra	скета (		marks)
	•		٠.	· ·		
6	At a pet shop, a	a bird and a and a cat co	cat cost \$320, ost \$215. How	a bird and much doe	a goldfish o s a goldfish	cost \$165 cost?
•	• • • • • • • • • • • • • • • • • • •					
		*	<u>.</u>			
					sa successor a	
	-		Ans			[3
37	A tank is 36% out and 364 of is the volume	cm ³ of water	water. If 75% is poured in,	of the wat the tank is	er in the tar filled to the	nk is poure brim. Wh
					-	
					-	

Sunshine coffee is a mixture of two grades of coffee powder A and B in the ratio of 5:7. If 1 kg of the coffee powder A costs \$6 and 1 kg of the coffee powder B cost \$12, what is the cost of 20 kg of Sunshine Coffee?

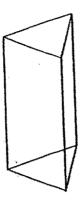
Ans:			[3	J
------	--	--	----	---

The figure below shows 3 identical small semi-circles, a big semi-circle, a rectangle and a square. The length of the rectangle is 40 cm. Find the area of the figure. (Take  $\pi = 3.14$ )



Ans: [3]

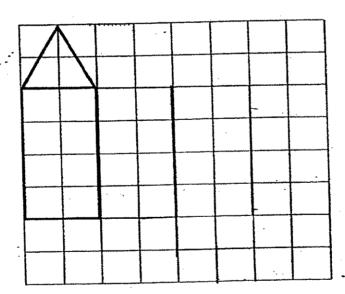
The figure shows a prism. The triangles at both sides are equilateral triangles.



(a) How many surfaces does this prism have?

Λ	(0)	[1]	١
Ans:	(a)	L'	J

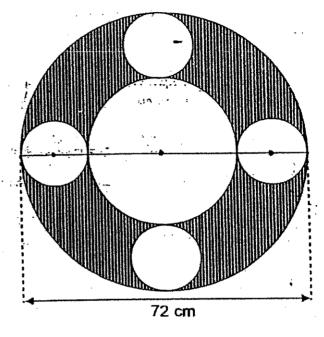
(b) Complete the figure in the grid provided below to show the net of the prism. [2]



A motorist wanted to travel from Town P to Town R via Town Q. On the first day, he travelled 70 km from Town P to Town Q. On the second day, he continued his journey from Town Q towards Town R and covered  $\frac{1}{4}$  of the remaining journey. He was then halfway between Town P and Town R. If he had travelled at an average speed of 50 km/h, find the total time taken to travel from Town P to Town R.

Ans: [3]

The figure below shows four identical small circles, one medium circle and one big circle. The diameter of the big circle is 72 cm. The radius of the medium circle is twice the radius of each small circle. Find the shaded area in terms of  $\pi$ .



Ans:	[4]

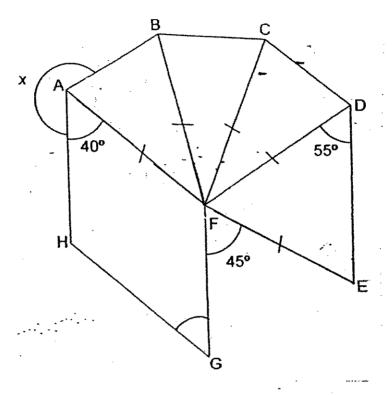
43 The table shows the parking charges at a car park.

		P/	ARKING CHARGES	
	•	.^ _^'- <u>_</u>	For the first hour	\$2.50
	Monday to Friday	From 8.00 a.m. to 5.00 p.m.	For every subsequent 15 min or part thereof	\$0.40 
		From 5.00 p.m. to 11.59 p.m.	For every subsequent hour or part thereof	\$1,50
			For the first hour	\$2.00
	Saturday and Sunday	From 8.00-a.m. to 3.30 p.m.	For every subsequent 15 min or part thereof	\$0.30
		From 3.30 p.m. to 11.59 p.m. 🚊	Per entry	\$3.00

Mrs Tan parked her car from 10.40 a.m. to 6.30 p.m. What would the difference in the parking charges be if she had parked her car on Friday and on Saturday?

Ans:	ŝ		[4]

The figure is made up of 3 identical isosceles triangles ABF, BCF and CDF, another isosceles triangle DEF and a parallelogram AFGH. Given that AF = BF = CF = DF = EF,  $\angle$ FDE = 55°,  $\angle$ GFE = 45° and  $\angle$ HAF = 40°, what is the value of  $\angle$ x?



Ans:	[4]	J

Mrs Yeo had 60% more books than Mdm Lim. Miss Tang had 25% fewer books than Mrs Yeo. Mrs Yeo and Mdm Lim gave Miss Tang some books in the ratio 3: 1. As a result, Miss Tang had 1.5 times as many books as before. Given that Mrs Yeo had 240 more books than Mdm Lim in the end, how many books did Mrs Yeo give to Miss Tang?

Ans: [5]

- Yen Ming started driving his car from Town X to Town Y at 13 40 at an average speed of 70 km/h. Leon started driving his sports car from Town X to Town Y at 15 10 at an average speed of 100 km/h.
  - (a) At what time did Leon pass Yen Ming on the road? ...
  - (b) 1 3/4 h after Leon passed Yen Ming on the road, Leon reached Town
     Y. At what time did Yen Ming reach Town Y?

A	(0)			-FOI
Ans:	(a)			 [3]

In a stadium, 20% of the people are performers for the National Day Parade and the rest are spectators. 65% of the spectators are males and there are 1200 more male spectators than female spectators. How many male spectators must leave the stadium so that 40% of the people in the stadium are male spectators?

Ans: ______[5]

48  $\frac{1}{5}$  of the number of chickens that Farmer Wong had is equal to  $\frac{3}{4}$  of the number of chickens that Farmer Zhang had. When Farmer Wong sold 150 of his chickens and Farmer Zhang bought another 160 chickens, the ratio of the number of chickens that Farmer Wong had to the number of chickens that Farmer Zhang had became 5 : 3. What was the total number of chickens that the 2 farmers have at first?

Ans:		[5]
------	--	-----

#### **END OF PAPER**

Setters:

Mr Lee Kin Leong

Mdm Sunnie Tang



### Answer Sheet

NANYANG PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL EXAMINATION (1)

26) 26-21=15 1.4 2.3 **15units**→30 3.1 28units >30/1x28/25=56foreign 4.3 stamps 8+10+1=19 19units > 380  $\blacksquare$  10units $\rightarrow$ 380/1x10/19 $\equiv$ 200stalks 10. 28) 3cmx5=15cm 15cmx4=60cm 20cmx2=40cm 12cmx2=24cm 60em+40em+24cm+25cm=149cm 14 16. 29) 60-45=15 17. 15/60=1/4 = 25/100= 18. 30) 100%+30%=430% 19. 20. 25x\$1200=\$30000° 21. 10x\$1200=\$12000 22. \$12000/1x130/100=\$15600 23. 15cm \$30000-\$1200**0=\$1800**0 24. C 25-10=15 25. Chines \$200x15=\$3000 \$18000-\$300**0-\$**15000 \$15600**#\$15000**=\$30600 \$30600-\$30000-\$600

```
31)1+2/3=12/3=5/3
   $63m/1x5/3=$105m
   3+1=4
   $5mx4=$20m
   $105m-$20m=$85m
   $85mx5=$425m
32)X x$20€$20X
   $20% x_2=$40x
  16m+16m+10m+10m=52m
   20x52=$1040
 ---$1040+$40X=$(1040+40X)
33 7h44min
    2/12/14cm=44cm
     9+30+44+3) cm
     3cm 14cm = 109cm
    26cm-109cm=17cm
36) B+C=$320
   B+G=$165
   G+C=$215
  $320+$165+$215=$700
  $700÷2=$350
  $350-$320-$30
37)100%-75%-25%
   25/100x36% 90%
   100%-9%=91%
   91%-->364cm3
   100%-->364cm3/1x100/91
   =400cm3
```

```
38)$6x5=$30 (A)
   $12x7=$84(B)
   $30+$84=114 (12kg)
   5 \text{kg} + 7 \text{kg} = 12 \text{kg}
   12kg $114
   20kq→$114/1x20/12=$190
39)40cm÷2=20cm
   20cm×20cm≡400cm2
   40cm×20cm=800cm2
   10cm×10cm=100cm2
   3.14x100cm2=314cm2
     x^3=3/2
     /2x314cm2=471cm2 (3semi-circles)
     142400cm2x 3 =628cm2
    (471+800+400+628) cm2=2299cm2
40)a)5 surfaces
41)50流入1点
   70km->60min/1x70/
   =84min=1h29min
  2units→Ih24min
  6units→3h72mir
  =4h12min
42) 72 \text{cm} \div 8 = 9 \text{cm}
    72cm ÷ 2=36cm
    36cmx36cm=1296cm2 (Big circle)
    9cmx9cm=81cm2
    81cm2x4=324cm2
    9 \text{cmx} 2 = 18 \text{cm}
    18cmx18cm=324cm2
    (1296-324-324) cm<sup>2</sup>
    =648 cm^2
   Ans: 648 \pi cm<sup>2</sup>
```

43)\$4.50

```
44)180^{\circ} -40^{\circ} =140^{\circ}
   180° - (55° x2)
   =70^{\circ}
          140° -70° -45°
   360°
   =1054
   近05° ÷3=35°
   180° -35°
   360°-40
                  1.5units
              4.5units 专用.5units
               1.5units = 8.5units
   11:5units
                8.5units = 3unit
    3un ts→240
   4.5units→240/1x45/30=360 Fook
46)a)1840
   b) 211
47) 100%-65% 35%
    65%-35%=30%
   30%-->1200
   35%-->1200/1x35/30=1400 (females)
   1400+1200=2600
                     (male)
                     (total)
    2600+1400=4000
    100%-20%=80%
    80%-->4000
                                 48) 490
    20%-->1000
    1000+1400=2400
    100%-40%=60%
    60%-->2400
    40%-->2400/1x40/60
    =4800/3=1600
    2600-1600=1000
```

---end---

Index No.	The state of the s			*****	

### NANYANG PRIMARY SCHOOL

## PRELIMINARY EXAMINATION 2007

# PRIMARY 6 MATHEMATICS

**DURATION: 2 HOUR 15 MINUTES** 

Booklet A	/ <b>20</b>		
Booklet B	/ 30	Total:	/ 100
	/ 50		
Name:	(	)	
Class: Primary 6 (	)		
Date: 21 August 200	07	-	
Parent's Signature:			
WRITE YOUR INDEX N	O. IN THE BOXES AT	THE TOP RIGHT H	IAND CORNER.
DO NOT OPEN THIS BO	OOKLET UNTIL YOU	ARE TOLD TO DO	so.
FOLLOW ALL INSTRUC	TIONS CAREFULLY		
ANSWER ALL QUESTIC	ONS.		

### **Booklet A**

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

What is the value of the number that is represented on the place value chart?

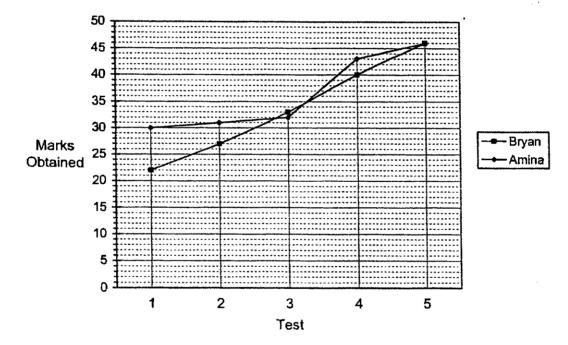
Ten thousands	Thousands	Hundreds	Tens	Ones
•••	-	••	•	

3000

- (1) 50 thousands and 320 tens
- (2) 53 hundreds and 20 ones
- (3) 503 hundreds and 20 ones
- (4) 503 thousands and 20 tens
- A number lies between 84 and 90. Which of the following cannot be a factor of this number?
  - (1) 17
  - (2) 27
  - (3) 29
  - (4) 43

- 3  $\Delta$  represents a value between 1 and 3. Which expression has the largest value?
  - $(1) \qquad \frac{\Delta+3}{\Delta}$
  - $(2) \qquad \frac{\Delta+3}{3}$
  - $(3) \qquad \frac{3-\Delta}{3}$
  - $(4) \qquad \frac{3-\Delta}{\Delta}$
- 4 Alice had a piece of string 2 m 4 cm long. She cut off 1.4 m from it. What is the length of the remaining string?
  - (1) 190 cm
  - (2) 136 cm
  - (3) 100 cm
  - (4) 64 cm
- Jane parked her car at a car park which charged a fixed rate of 3 cents per minute. How much did Jane have to pay if she entered the car park at 10 50 and left at 13 48?
  - (1) 534¢
  - (2) 654¢
  - (3) 774¢
  - (4) 894¢

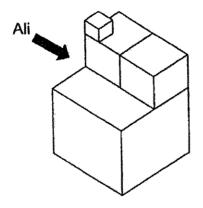
- If Andrew walks to the city and cycles back, he will take 6 hours. If he walks both ways, he will take 8 hours. How many hours will he take if he cycles both ways? (Assume that Andrew's walking and cycling speeds do not change)
  - (1) 14
  - (2) 2
  - (3) 7
  - (4) 4
- 7 The graph shows the marks obtained by Amina and Bryan in 5 tests.



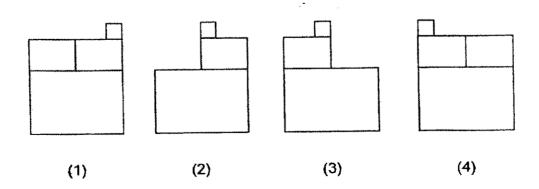
Find the difference in the improvement shown by the two pupils from Test 3 to Test 4.

- (1) 1
- (2) 2
- (3) 3
- (4) 4

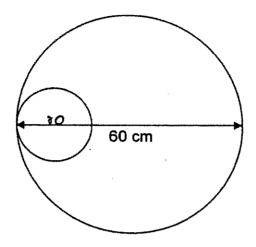
- 8 The length of a rectangle is increased by 20% and its breadth is decreased by 20%. Express the area of the new rectangle as a percentage of the area of the original rectangle.
  - (1) 64%
  - (2) 96%
  - (3) 100%
  - (4) 144%
- 9 Ali is looking at the object from the position as shown.



Which of the following shows the correct view from his position?



The figure is made up of 2 circles. The radius of the big circle is 3 times the radius of the small circle. What is the difference in the circumferences of the two circles?

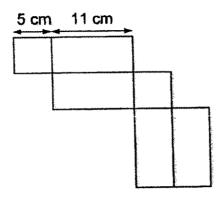


- (1)  $20\pi$  cm
- (2)  $40\pi$  cm
- (3)  $80\pi$  cm
- (4)  $800\pi$  cm
- 11 What is the missing number in the box?

$$6 \times 6 + \boxed{ + 9 - 8 = 40}$$

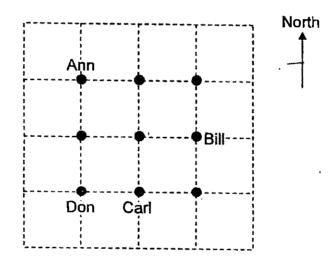
- (1) 4
- (2) 108
- (3) 332
- (4) 396

The figure shows the net of a cuboid with a square base. What is the maximum number of 2-cm cubes that can be packed into the cuboid?



- (1) 20
- (2) 34
- (3) 68
- (4) 137
- 13 A bus departed from the bus interchange with  $\frac{4}{5}$  of the passenger load.  $\frac{3}{8}$  of the passengers were women,  $\frac{1}{4}$  were men and the rest were children. If there were 30 children on the bus, what is the full passenger load?
  - (1) 60
  - (2) 80
  - (3) 100
  - (4) 150

- 14 Given that  $\frac{2}{3}$  of Alan's money is equal to 75% of Tim's money, what fraction of Tim's money is the total sum of money?
  - (1)  $\frac{8}{17}$
  - (2)  $\frac{9}{17}$
  - (3)  $\frac{17}{8}$
  - (4)  $\frac{17}{9}$
- The grid shows the seating arrangement of 9 pupils. Elvis is seated southeast of Fion. Guohao is seated 135° anticlockwise from Halimah. Who is seated west of lan?



- (1) Carl
- (2) Don
- (3) Guohao
- (4) Halimah

De E		•	) Cla	ss: Pr 6 (	
ru r	PRELIMS 2007				
Bool	klet B	-we			
	stions 16 to 25 carry 1 nided. For questions which		•		•
,				(10 m	narks)
16	A total of \$349 549 wa the nearest hundred the		lag day. Ex	press this va	alue to
		,	Ans: \$	angung giến dia pamaya milya milyami (é. gi liku a	
17	John started his lesson break at 10.15 a.m. Aft earlier. How much earli	er $2\frac{3}{5}$ h into the le	,		
			Ans:	•	min
18	What percentage of 5 k			•	min
18	What percentage of 5 i				min
18	What percentage of 5 i				min

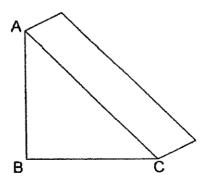
A mixture, weighing 100 kg is made up of 2 chemicals A and B in the ratio 7: 3. When some volume of Chemical A evaporates, the content of Chemical A is reduced to 60% of the new mixture. What is the mass of the mixture now?

Ans:	κg
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20 Five identical pencils cost \$6y. How much would 9 such pencils cost?

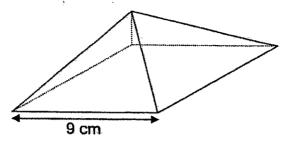
Ans: \$ _____

The figure shows a triangular prism with AB = BC. How many different ways are there to cut the prism into 2 identical parts with a single cut?



Ans:

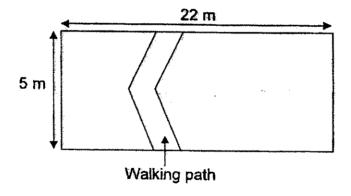
The figure shows a pyramid with a square base of side 9 cm. The sides are made up of equilateral triangles.



What is the perimeter of the net of the above solid?

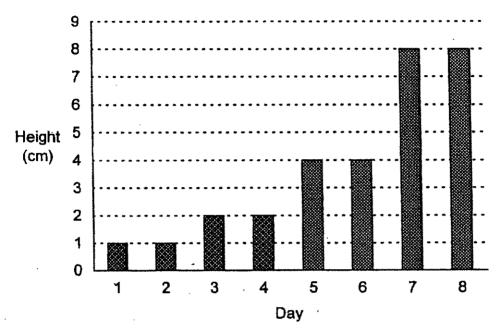
Ans:	cm
------	----

The figure shows a rectangular grass field with a cemented walking path of constant width 2 m. Mr Lim mows the grass at a rate of 10 m² per minute. How long will it take him to mow the field completely?



Ans: min
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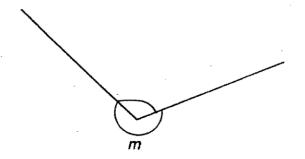
Wei Wei started growing a plant and he charted its growth in the graph below. A growth pattern of the plant was observed.



How tall will the plant be on Day 16?

Ans:	cm
Ans:	VI

25 The figure shows 2 straight lines. Measure and write down the size of the angle marked m.



Ans:

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

26 Arrange these numbers in descending order:

$$\frac{2}{50}$$
, 0.309,  $\frac{1}{3}$ , 0.065

Ans: _	
--------	--

There are 5 identical dictionaries and 10 identical textbooks on the shelf. Each textbook weighs  $\frac{1}{5}$  kg and each dictionary is  $3\frac{1}{2}$  times as heavy as the textbook. When 3 dictionaries are removed from the shelf, what is the total mass of the remaining books?

Ans: _____ kg

Jug A and Jug B are filled to the brim. If all the water in Jug A is poured into Container C, it is 28 litres short of completely filling it. If all the water in Jug B is poured into Container C, it is 35 litres short of completely filling it. If the water in Jug A and B is combined, it will completely fill Container C. How much water is in Jug A when it is  $\frac{1}{7}$  filled?

Ans: litres

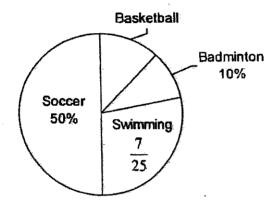
A group of boys and girls went on a fieldtrip. Excluding Tom and Peter, the number of boys was  $\frac{2}{3}$  the number of girls. The number of girls was 1 more than the number of boys. When another 3 girls joined the group, what fraction of the children were girls? Give your answer in its simplest form.

Ans: ____

30 How many different ways are there to arrange 4 children if they are standing in a row?

	•
Ans:	
MII5.	

31 The pie chart below shows the number of pupils who like the various sports.



If 300 pupils like soccer, how many pupils like basketball?

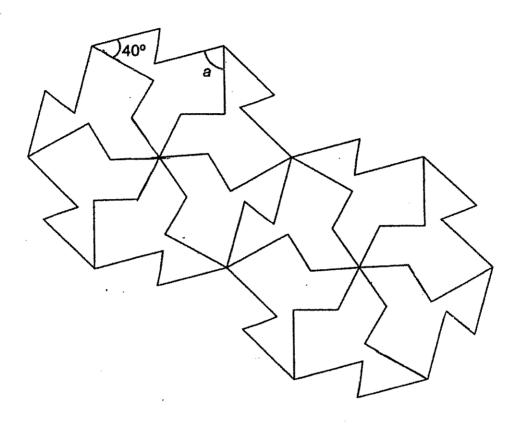
Ans:	
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A soccer tournament is organised for 8 teams. Each team has to play with every other team. How many matches will be played in all?

Ans:

### Use the figure given below to answer questions 33 and 34.

The pattern in the figure shows part of a tessellation.



- 33 (a) Shade a unit shape of the tessellation.
  - (b) Mark a pair of vertically opposite angles on the figure. Label the angles as b and c.
- 34 In the figure, find  $\angle a$ .

Ans:	0
M113.	

35 A rectangular piece of paper is folded along AC at Corner B as shown in Figure 1 so that the line BC lies on the centre line.

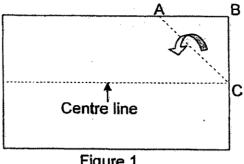
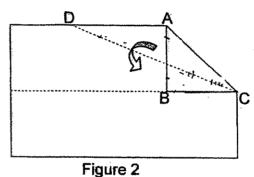
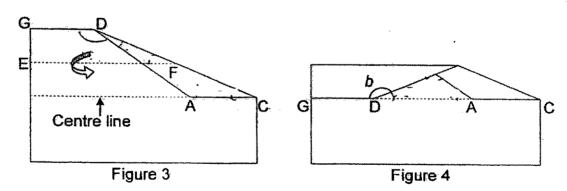


Figure 1

Next, it is folded along DC as shown in Figure 2 so that the line AC lies on the centre line.



Finally, it is folded along EF as shown in Figure 3 so that the line GD lies on the centre line.



Find  $\angle b$ .

Ans:	0

For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided.  The number of marks available is shown in brackets [ ] at the end of each					
ques	tion or part-question.	(50 marks)			
36	A group of w boys planned a camping trip and they bought food to last them for 35 days. If 6w more boys joined the camp, how many days would the same amount of food last?				
	· · · · · · · · · · · · · · · · · · ·				
	Ans	[3]			
37 The table below shows the statistics of a town's population. However some data has been accidentally deleted.					
	Population	40000			
	Below 15 years old	SMZ			
	15 – 64 years	12200			
	65 years and over (Elderly)	5500			
	Support Ratio	6			
	(Number of Residents Aged				
	15 – 64 Years Per Elderly Resident)				
	What percentage of the citizens in the	town are below 15 years old?			
	•				
	•				
	An	s:[3]			

Tom worked 20 days in August. He gave 0.15 of his salary to his mother, used  $\frac{4}{5}$  of the remainder and saved the rest. He saved a total of \$340 in August. How much did he receive for a day's work?

Ans:		[3]
------	--	-----

- 39 Mr Yeo earned a monthly salary of \$3000 which was 20% more than the monthly salary of Mr Poon.
  - (a) What was Mr Poon's monthly salary?
  - (b) When both Mr Yeo and Mr Poon's monthly salaries were increased by the same percentage, Mr Yeo would earn \$590 more than Mr Poon. What was the percentage increase in their salaries?

Ans:	(a)	, , , , , , , , , , , , , , , , , , , ,	ľ	1	
	\— <i>/</i> -			,	

40 Four children made the following statements.

Walter. 'The average of Yo Yo's mass and my mass is 29 kg.

Xaviar: I am the heaviest.

Yo Yo: Zenith is 2 kg lighter that Xaviar.

Zenith: Our masses are in consecutive order (in running sequence).

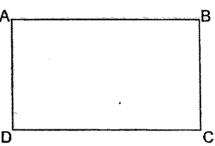
What is the total mass of Walter, Xaviar and Yo Yo?

Ans:		[3]	
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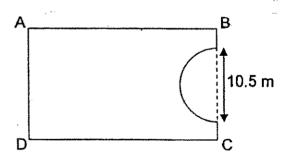
Mrs Samy made a deal with her son, Raju, that for every night he spent reading, he would get 2 stickers. For every night that he did not read, he would give her back 1 sticker. The deal lasted 30 days and Raju collected 24 stickers in all. How many nights did Raju spend reading?

Ans: _____[3]

42 (a) The figure shows a rectangular field ABCD. Mike walked from A to B to C to D and he covered a distance of 57 m. Sandy walked from B to C to D to A and she covered a distance of 48 m. What is the perimeter of the field?

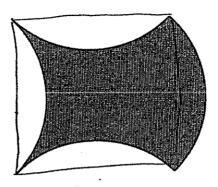


(b) Some construction work was undertaken on the same field and a semi-circular part was removed from it. What is the perimeter of the field after the construction? (Take  $\pi = \frac{22}{7}$ )



Ans:	(a)		[2	
------	-----	--	----	--

The shaded figure is made up of 4 quarter arcs of radius 10 cm. Find its area. (Take  $\pi = 3.14$ )



Ans: ______[4]

The tickets for a show are priced at \$10 and \$5. The number of ten-dollar tickets available is  $1\frac{1}{2}$  times the number of five-dollar tickets.

5 out of 6 ten-dollar tickets and all the five-dollar tickets were sold. The ticket sales amounted to \$5600. How much more would have been collected if all the tickets were sold?

Ans: [4]

A rectangular tank measuring 60 cm by 35 cm by 40 cm is half filled with water. If Tap A is turned on, it will take 6 minutes to fill the remaining half of the tank to its brim. Tap B drains water from the tank at a rate of 12 litres per minute. How long will it take for the tank to be filled to  $\frac{1}{8}$  of its capacity if both taps are turned on at the same time?

Ans: [5]

Azman had 25% more marbles than Chongfu. Chongfu had 60% more marbles than Bala. During a game, Azman and Bala lost some marbles to Chongfu in the ratio 3: 1. In the end, Azman and Bala had 780 and 480 marbles left respectively. How many marbles did Azman have at first?

Ans:		[5]
------	--	-----

- At a school carnival, there were 520 more girls than boys.  $\frac{1}{8}$  of the girls and 20% of the boys left the carnival. In the end, there were 488 more girls than boys.
  - (a) Did more girls or boys leave the carnival? How many more?
  - (b) How many children were there at the carnival in the end?

Ans:	(a)	[1	1

(b)	[4
-----	----

48 A bus and a car travelled from Town X to Town Y. The bus left Town X at 10.48 p.m. and it took 5 hours to reach Town Y. The car started 30 minutes later than the bus and it took 4 hours to reach Town Y. At what time did the car catch up with the bus?

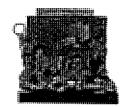
Ans:	÷ -	[5]
A115.		[၁]

#### **END OF PAPER**

Setters:

Miss Chan Lee Shan Mrs Evan Cynthia Chan

Miss Sylvia Tay



### ExamSutra 考试圣经

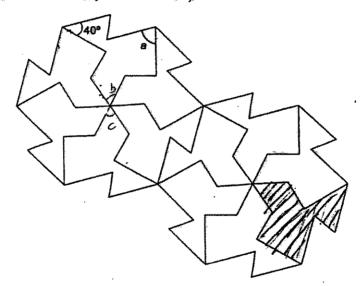
### Answer Sheets Nanyang /Pri 6 SA2/2007 Maths

1)3	2)2	3)1	4)4	5)1	6)4
7)4	8)2	9)3	10)2	11)2	12)1

13)3 14)3 15)4 16)\$300 000 17)9min 18) 
$$\frac{41}{100}$$
%

19)75kg 20) 
$$\frac{54y}{5}$$
 21)4 22)72cm 23)10min 24)128cm

25)245° 26) 
$$\frac{1}{3}$$
, 0.309, 0.065,  $\frac{2}{50}$  27)3.4kg 28)5l 29)  $\frac{1}{3}$ 



34)80°	35)157.5°	36)5	<i>37)3.75%</i>	38)\$100	39)a)\$2500
39)b.18%	40)89kg	41)18	42)a.70m	42) <b>b</b> .76m	43)143cm²
44)\$800	45)6.3min	46)1320	47)a.Girls 3	32	47)b.1192

48)1.18pm

Index			_	
No.			_	

## PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION 1, 2007

#### **MATHEMATICS**

#### **BOOKLET A**

Name	***************************************	diable development and a second		~~~~~	(	)
Class	: Primary	·6 _				
Date	: 1 Augu	st 2007				
Total 1	îme For B	looklets A & B	: 2 h	15 mir	1	

#### **INSTRUCTIONS TO CANDIDATES**

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

)

J.

)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

( 20 marks )

- 1. 800 000 + 6000 + 1 =
  - (1) 806 001
  - (2) 806 010
  - (3) 860 001
  - (4) 860 010
- 2. The best estimate of 7490 + 24 is _____.
  - (1) 3120
  - (2) 312
  - (3) 31.2
  - (4) 3.12
- 3. What is the missing number in the box?

0.0502 × = 5.02

- (1) 10 000
- (2) 1000
- (3) 100
- (4) 10.

4. What is the missing number in the box?

- (1) 2020
- (2) 20.2
- (3) 2.2
- (4) 2.02

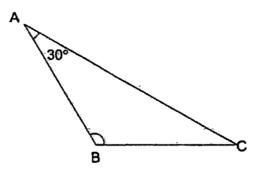
)

. 5. 4 boys share 6 pizzas equally. What fraction of a pizza does each boy get?

- (1)
- (2)
- (3)
- (4)

(

6. ABC is an isosceles triangle and AB = BC.



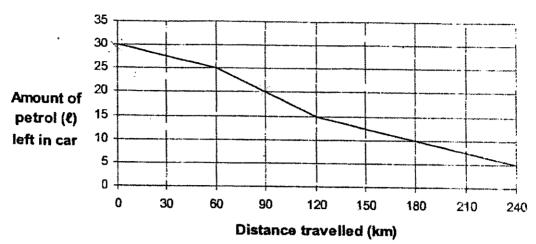
Find ∠ABC.

- (1) 30°
- (2)75°
- (3) 120°
- (4) 150° )

7. The average of 8 and y is _

- (1)4 + y
- (2) 8 + v
- (3)
- (4)

8. The graph below shows the amount of petrol left in a car and the distance it travelled.



How much petrol was used for the first 90 km travelled?

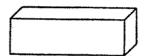
- (1) 10 &
- (2) 15 &
- (3) 20  $\ell$
- (4) 90 E
- 9. A printer prints documents at a rate of 120 pages in 15 minutes. At this rate, how many pages does the printer print in 1 hour?
  - (1) 8
  - (2) 32
  - (3) 480
  - (4) 800
- 10. Danisa bought  $\frac{5}{6}$  kg of chestnuts. She roasted  $\frac{3}{10}$  of them. How many kg of chestnuts did she roast?
  - $(1) \qquad \frac{1}{4} \text{ kg}$
  - (2)  $\frac{1}{20}$  kg
  - (3)  $\frac{7}{12}$  kg
  - (4)  $\frac{8}{15}$  kg

}

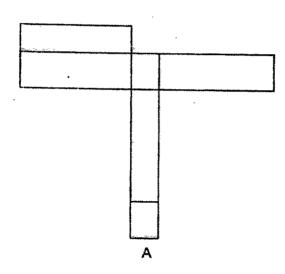
).

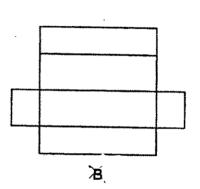
*

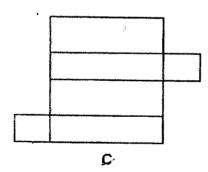
#### 11. This figure shows a cuboid.

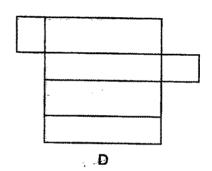


Which of the following are nets of the cuboid?



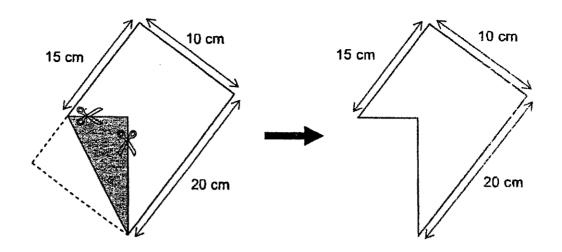






- (1) A and B
- (2) A and C
- (3) B and C
- (4) C and D

12. A rectangular piece of paper, grey on one side, is folded and then cut as shown.



Find the area of the remaining piece of paper.

- (1) 175 cm²
- (2) 150 cm²
- (3) 125 cm²
- (4) 100 cm²

13. Fatimah has a certain length of ribbon. She cut off  $\frac{5}{12}$  of it and then another  $\frac{3}{7}$  of it. What fraction of the length of the ribbon was left?

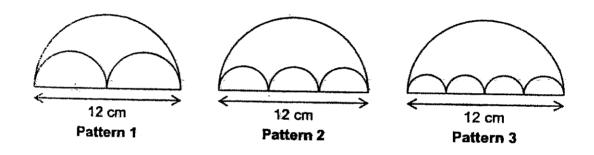
- (1)  $\frac{13}{84}$
- (2)  $\frac{71}{84}$
- (3)  $\frac{1}{3}$
- $(4) \frac{1}{4}$

( )

- 14. A cube has a volume of 64 cm³. When the length of each edge of the cube is doubled, what will the volume of the cube be?
  - (1) 512 cm³
  - (2) 256 cm³
  - (3) 128 cm³
  - (4) 8 cm³

( )

The following patterns are made up of semicircles.



Pattern	Total area of small semicircles : Area of large semicircle
1	1:2
2	1:3
3	1:4

What is the total area of the small semicircles in Pattern 5 in terms of  $\pi$ ?

- (1)  $7.2\pi \text{ cm}^2$
- (2)  $3.6\pi \text{ cm}^2$
- (3)  $3\pi \text{ cm}^2$
- (4)  $6\pi \text{ cm}^2$

( )

**End of Booklet A** 

Index				
No.	•	í	—	

### PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION 1, 2007

#### **MATHEMATICS**

#### **BOOKLET B**

Name : ____ ( )

Class: Primary 6 __

Date: 1 August 2007

Total Time For Booklets A & B : 2 h 15 min

Booklet A	20
Booklet B	80
TOTAL	100

#### **INSTRUCTIONS TO CANDIDATES**

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

16. Find the value of  $6 \times (11-5) + 14 + 2$ .

Ans: _____

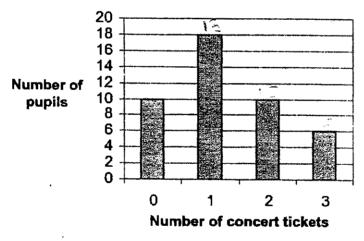
17. What is the time shown on the clock face? Give your answer using the 24-hour clock.



Night

Ans:

18. The bar graph below shows the number of concert tickets bought by a class of 44 pupils.



What was the total number of concert tickets bought by the pupils of the class?

Ans:

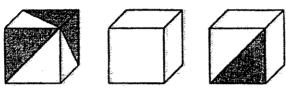
19 Find ∠y.

28°

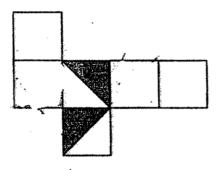
Ans:

Do not write in this space

20. The figures below show 3 views of the same cube.



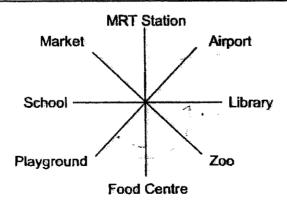
Shade the net below so that it is the net of the cube shown.



21. I had \$3n at first. My mother then gave me \$4n. If n = 60, how much money do I have now?

Ans: \$____

22.



Ahmad is facing the food centre. When he turns 45° clockwise and then 135° anti-clockwise, where will he be facing?

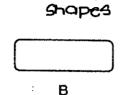
Ans	:	_ <u></u>	There	
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Do not write

in this space

23. Which of the following shape(s) can tessellate?



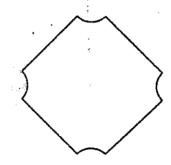






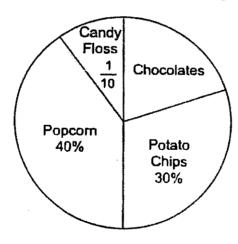
Ans : _____

24. How many lines of symmetry does the figure have?



Ans: _____

25. The pie chart below shows the favourite snacks of a group of children.



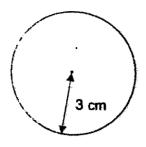
What fraction of the children chose chocolates as their favourite snack? (Give your answer in its simplest form.)

Ans:

Questions 26 to 35 carry 2 marks each.	Show your working clearly	y in the space below
each question and write your answers		
require units, give your answers in the ur	its stated.	(20 marks)

Do not write in this space

26. Find the circumference of the circle. (Take  $\pi = 3.14$ )



An:	5	:	• •	cm
	_	-		

27. Ghandi scored an average of 75 marks for 2 tests. How many marks must be score in the third test so that his average score for the 3 tests is 80 marks?

Ans	:	

28. The table below shows the postage charges for sending parcels to Countries S and T

Country	Mass step not over 200 g	Per additional 200 g or part thereof
S	<b>\$</b> 6	\$1
Ţ	<b>\$</b> 10	\$2

Mr Qian wants to send a parcel weighing 350 g to Country S and another parcel weighing 150 g to Country T. How much does he have to pay for the postage?

Ans	: (	<u> </u>	
Ans	: ;	b	

29. A bus took 4 h to travel from Town M to Town N at an average speed of 54 km/h. A car took 1 h less than the bus for the same journey. What was the average speed of the car in km/h?

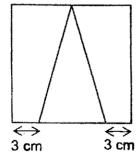
Do not write in this space

Ans: km/t

30. In a school, 80% of the teachers are females and the restrare males. How many percent more female teachers than male teachers are there in the school?

Ans:

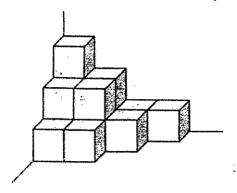
31. The figure below shows a triangle in a square. The perimeter of the square is 52 cm. Find the area of the triangle.



Ans : _____cm²

32. The solid shown below is made up of 2-cm cubes.

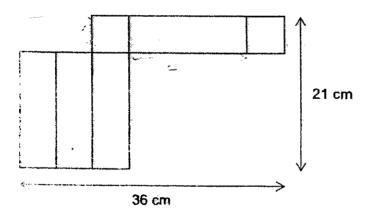




How many more 2-cm cubes are needed to make the solid into an 8-cm cube?

Ans:

33. The diagram below shows a net of a cuboid.



Find the volume of the cuboid.

34.	Wahid, Xavier, Yati and Ziyi have to pay the same amount of class funds. Yati forgot to bring money so her 3 other classmates paid for her first. The ratio of the total amount that Ziyi paid to the total amount that Wahid and Xavier paid is 3:7. If Yati returned \$6 to Ziyi, find the amount each pupil paid for the class funds.	Do not write in this space
		Andrew Andrews
	•	And the same of th
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	Ans: \$ = = = = = = = = = = = = = = = = = =	
<del></del>		A control of the cont
35.	There were 140 apples and pears in a box. $\frac{1}{2}$ of the apples and $\frac{2}{3}$ of the pears were eaten. In the end, there were 68 of these fruits left. How many apples were eaten?	a na dividita a dipolar dipolar di polar di pola
*	·	Paris de la constante de la co
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		Erfe-seth ref tender-spen
	Ans :	
	SCORE	

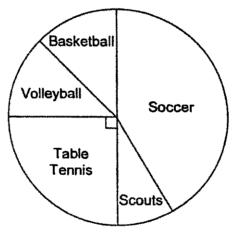
	uestion	of marks available is shown in brackets [ ] at the end of each question or ( Total: 50 marks )					
6.	The figure below shows two straight lines PQ and PS.						
	(a)	Draw two lines QR and RS such that QR // PS and RS // PQ. [2]					
		S '					
		Q					
	(b)	Measure and write down the size of ∠QPS.					
		Ans :[1]					
7.	Mrs ( each	Ourai wants to buy bookmarks for 3 classes of pupils. There are 35 pupils in class. For every 4 bookmarks she buys, she gets another one free.					
	(a)	How many bookmarks does she need if each pupil gets 1 bookmark?					
	(b)	4 bookmarks cost \$2. What is the least amount she needs to pay?					
		Ans: (a)[1]					
		Ans: (a)[1]					

38.	A rectangular piece of cardboard measures 17 cm by 12 cm.	Sushila cuts the
	greatest number of rectangular pieces, each measuring 3 cm	by 2 cm, from the
	cardboard. What is the total area of all the pieces cut?	

Do not writ In this spa

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ula		191	ì

39. A group of pupils were asked to choose a co-curricular activity. The pie chart represents their choices. The same of number of pupils chose Basketball and Volleyball.



- (a) 60 pupils chose Table Tennis. How many pupils chose Basketball?
- (b) The ratio of the number of pupils who chose Basketball to the number of pupils who chose Soccer is 3:10. How many pupils chose Scouts?

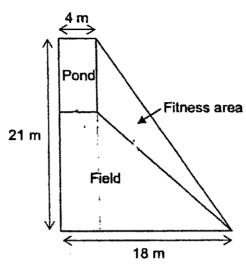
A	 a)		ľ	4	ì
Ans	 ( <b>a</b> )	**	 L	١.	ı

SCORE	

40.	Kavita had 50% fewer erasers than Mark. Kavita, Kavita had 40% fewer erasers than have at first?	After Mark gave 15 of his erasers to Mark. How many erasers did Kavita	Do not write In this space
		•	- 1
		,	Name of the last o
			P-JA-JA-JA-JA-JA-JA-JA-JA-JA-JA-JA-JA-JA-
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	•		
			3
		•	T.
		•	
		Ans :[3]	
	was 1:5. Then their mother gave Eunice stickers. The ratio of the number of Andre stickers became 1:4. How many stickers	w's stickers to the number of Eunice's	
		•	
	•		
		•	
	· · · · · · · · · · · · · · · · · · ·	Ans :[3]	
	•	*	
		SCORE	
		330112	

42. The figure below shows a park which is made up of a triangular fitness area, a rectangular pond and a field in the shape of a trapezium. The length of the pond is twice its breadth.

Do not write in this space



- (a) The cost of fencing material is \$3 per metre. How much will it cost to fence up the pond?
- (b) What is the area of the park?

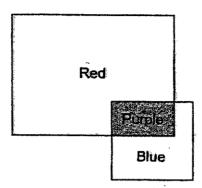
Ans: (a) ______[2]

(b) _____[2]

43. Taufik arranged a rectangle and a square and painted them in three colours as shown in the figure below. The ratio of the area of the rectangle to that of the square is 3:1. The ratio of the area of the red part to that of the blue part is 4:1. The length of the square is 9 cm.

Do not write in this space

- (a) What is the area of the purple part?
- (b) What is the ratio of the area of the purple part to that of the figure?

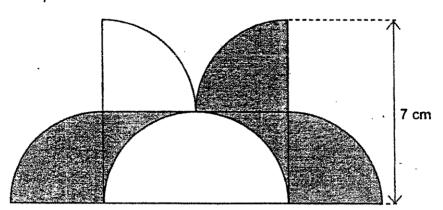


			w**	
Алş	:	(a)		[3

- 44. The figure below is made up of a rectangle, a semi-circle and 4 identical quadrants.
- Do not write in this space

- (a) What is the total area of the shaded parts?
- (b) What is the perimeter of the whole figure?

 $(Take \pi = \frac{22}{7})$ 

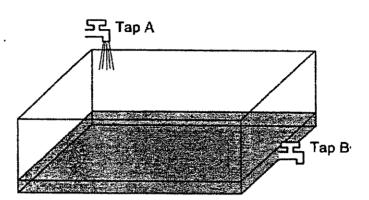


Ans:	(a)	•	[2]
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Get a	Tutor t	to go through the Papers	http://www.ye	stuition.sg					
45.	400 people took part in a camp. 73 of them were adults and the rest were children. $\frac{2}{5}$ of the boys and $\frac{1}{4}$ of the girls were lower primary pupils while the								
	rest of them were upper primary pupils. There were 9 more upper primary girls than upper primary boys.								
	(a)								
	(b) What percentage of the people who took part in the camp were girls?								
		•							
				-					
			•						
			Ans: (a)	[3]					
			<b>(b)</b>	[2]					

46. A rectangular tank measuring 60 cm by 40 cm by 20 cm was  $\frac{1}{6}$  filled with water. At 08 00, Tap A with water flowing out at a rate of 3  $\ell$  per minute was turned on. At 08 02, Tap B was turned on to drain water out of the container at a fixed rate. At 08 13, the tank was 75% filled with water. At what time would the tank be filled to the brim? (1  $\ell$  = 1000 cm³)

Do not write in this space



Ans: [5]

47.	Najip, Kumar and Gurmit started jogging at the same time from the same starting-point round a circular track. Najip and Kumar jogged in a clockwise direction and Gurmit jogged in an anti-clockwise direction. Gurmit took 5 minutes to complete each round. Gurmit met Najip after every 3 minutes. Gurmit met Kumar after every 2 minutes. The jogging speed of each person remained the same throughout.
	in roughout.

Do not write in this space

- (a) What was the ratio of Gurmit's speed to Najip's speed to Kumar's speed?
- (b) When Gurmit and Najip met again at the starting-point after 15 minutes, Kumar had already jogged 3.6 km. What is the circumference of the circufar track?

۳,	Ans:	: (a	[3]

		Ans		
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#### ExamSutra 考试圣经

#### Pei Chun /Pri 6 SA2/2007 Maths

1)1	2)2
-,-	<del>-</del> ,-

3)3 9)3 4)4

11)4

6)3

7)4

13)1

8)1

15)3

10)1

5)4

12)2

19)136°

14)1

16)43

17)2015

18)56 tickets

22)Library

20)

21)\$420

24)4 lines

23)A and D.

25) $\frac{1}{5}$ 

28)\$17

31)45.5cm²

26)18.84cm 27)90 marks

29)72km/h 30)300%

32)50 cubes 33)400cm³

34)\$30

35)64 apples

37)a. 105 bookmarks

36)

37)5.\$42

36)b.100⁰ 38)204cm²

39)a.30 pupils

39)b.20pupils

41)13 stickers

40)120 erasers

42)a.\$72  $42)b.231m^2$ 

44)a.34.125cm²

44)b.43cm

43)a.27cm²

45)a.219 pupils

45)b.38%

43)b.1:11

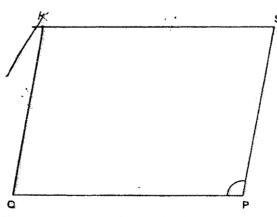
46)08 19

47)a.6:4:9

47)b.0.8km

48)\$20

3()



Measure and write down the size of ∠QPS.

Index				, -	H
No.		٢.			

# PEI CHUN PUBLIC SCHOOL : PRELIMINARY EXAMINATION 2, 2007

#### **MATHEMATICS**

#### **BOOKLET A**

Name		(	 )	
Class	: Primary 6			
Date	: 11 September 2007	-		

#### **INSTRUCTIONS TO CANDIDATES**

Total Time For Booklets A & B : 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO. FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

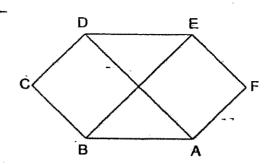
)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

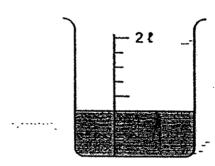
For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. In 569.78, which digit is in the tenths place?
  - (1) 5
  - (2) . 6
  - (3) 7 ...
  - (4) 8
- 2. What is the value of  $28-6\times2+8+4$ ?
  - (1) 18
  - (2) 2
  - (3) 6
  - (4) 13
- 3. Which of the following numbers is the largest?
  - (1) 7.38
  - (2) 7.83
  - (3) 7.038
  - (4) 7.308
- 4. If y = 30, find the value of  $\frac{y}{2} 3 \times 2$ .
  - (1) 9.
  - (2) 12
  - (3) 24
  - (4) 27

5. In the figure below, which of the following pairs of lines are not perpendicular?



- (1) AD and BE
- (2) AD and DE
- (3) BC and CD
- (4) BE and EF
- 6. How much more water must be added to make 2 litres?

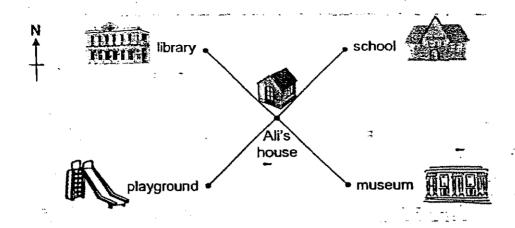


- (1) 500 ml
- (2) 750 ml
- (3) 1000 ml
- (4) 1250 ml
- 7. A machine can print 60 cards in 3 minutes. At this rate, how many cards can it print in 1 hour?
  - (1) 180
  - (2) 1200
  - (3) 2400
  - (4) 3600

)

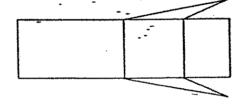
)

8. The map below shows some places around Ali's house.

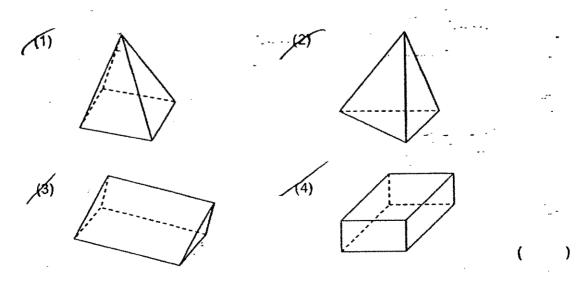


Ali's house is north-west from the _____

- (1) library
- (2) school
- (3) museum
- (4) playground
- 9. The figure shows a net of a solid.



Which one of the following solids can be formed by the net?



MA / P6 / PL2 / 2007

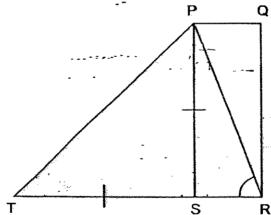
Page 3 of 5

(Go on to the next page)

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http://www.TopSchoolExamPapers.com

- 10. After a discount of 10%, a sofa cost \$1800. What was the price of the sofa before the discount?
  - (1) \$200
  - (2) \$1620
  - (3) \$1980
  - <del>(4</del>) \$2000
- 11. Mr Loy bought a bag of sweets for his pupils. He gave each pupil 3 sweets and had 12 sweets left. So, he gave one more sweet to each pupil but was short of one sweet. How many sweets did he buy?
  - (1) 51
  - (2) 50
  - (3) 45
  - (4) 44
- 12. In the figure, PQRS is a rectangle. ∠RPT = 65°, TS = SP and TSR is a. straight line.



Find ∠PRS.

- (1) 20°
- (2) 45°
- (3) 65°
- (4) 70°

.

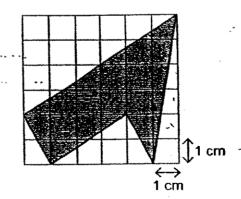
)

- 13. Shiqi spent 5 days folding paper stars for her mother. Each day, she folded 3 paper stars more than the day before. She folded a total of 65 paper stars. How many paper stars did she fold on the last day?
  - (1) 7-
  - (2) 11
  - (3) 13
  - (4) 19
- 14. Look at the number pattern below.

A A	<b>:</b>	ic F	Ď,
0 ·	•	1	
	3		2
4		5	
	.7		6
***		***	

In which column will you find the number 1205?

- (1) A
- (2) B
- (3) C
- (4) D
- 15. Find the area of the shaded shape below.



- (1) 12 cm²
- (2) 16 cm²
- (3)  $20 \text{ cm}^2$
- (4) 22 cm²

**End of Booklet A** 

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# PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION 2, 2007

#### **MATHEMATICS**

### BOOKLET B

Mana a la		
Name : ( )	· · · Booklet A	
Class : Primary 6		20
Date : 11 September 2007	Booklet B	80
Total Time For Booklets A & B : 2 h 15 min	TOTAL	100

#### INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

	uestions which require units, give your ans		( 10 marks )
5.	Write forty-two thousand and sixteen in	figures.	
		1	
	<b>←</b>		• • • •
		Ans:	
_			•
7.	There are 254 708 people living in Hap nearest ten thousand.	py Town. Express this	gumber to the
		•	• • • • • • • • • • • • • • • • • • • •
		÷	
	-u-		ت.
	•	Ans :	
18.	Find the value of 12.6 + 4.75.		- Marie Pr
		•	
_	* · · · · · · · · · · · · · · · · · · ·		*
	-	Ans:	
	_ 240	-	
19.	Express $\frac{240}{400}$ as a percentage.	· •	.2•
	•	·	
	,		n.
		Ans:	%

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20. Find the value of  $\frac{7}{12} - \frac{1}{4} - \frac{1}{4}$ 

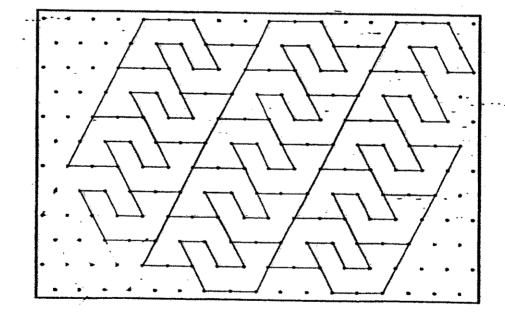
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Ans •

21. Express  $\frac{2}{5}$  hour in minutes.

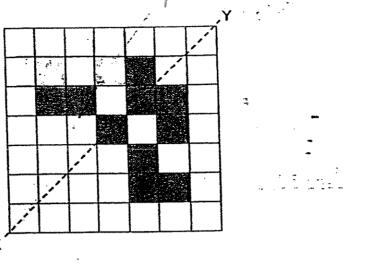
Ans: _____ mir

22. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided within the box.

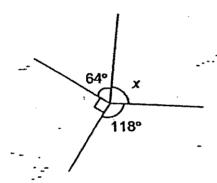


Shade two more squares to complete the figure which has the line XY as a line of 23. symmetry.

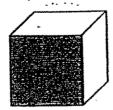
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24. Find  $\angle x$  in the figure below.



The area of the shaded face of the cube shown is 49 cm2. What is the volume of 25. the cube?



Ans:

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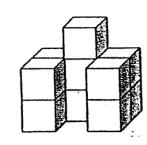
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In the space below, on the line AC has been	draw a triangle in whic n drawn for you.	ch AB = 5 cm an	d ∠BAC = 70°.	
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· · · · · · · · · · · · · · · · · · ·	·	Ans:		
		Ans:		
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	mytin the figure. He le had at first?	had
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	ny in the figure. He le had at first?	
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	
John used some wir 14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	
44 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	
44 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show if the wire that hi	e had at first?	n-
-14 cm of wire left. V	e to make the isoscel Vhat was the length o	es triangle show	e had at first?	

29. The solid below is made up of 2-cm cubes. What is the volume of the solid?

Do not write in this space



30. Chicken sausages are sold at \$2.35 per 100 g at a supermarket. What is the price of 1.5 kg of sausages?

Àns: \$ _____

31. The table shows the parking charges at a car park.

Parking Cl	harges  =
For the first hour	\$1.20
For every additional 1/2 hour	∴\$0.40

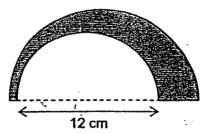
Zarina parked her car in the car park from 11 a.m. to 2.30 p.m. How much did she pay?

Ans: \$ _____

	She used 1 red bear yellow beads did she	d and 3 yellow bea	al of 144 red; yellow and do do for every 5 orange be	orange beads. ads. How many	Do not w in this sp
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	· w		Ans :		1
	_ *** *				· f
33.	Santosh had three ti	imes as many stick	ers as Tahir. When Tah	ir gave $\frac{1}{3}$ of his	· · · · · ·
33.	Santosh had three ti stickers to Santosh, to Tahir's? Give you	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
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33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
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33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	
33.	stickers to Santosh,	what would be the	ratio of the number of Sa	ir gave $\frac{1}{3}$ of his	

34. The figure shows a small semicircle cut out from a semicircle of diameter 16 cm. Find the area of the shaded part in terms of  $\pi$ .

Do not write in this space



Ans: ____cm²

35. Mr Ho had two identical bottles completely filled with mixtures of oil and water. The ratio of the amount of oil to the amount of water in the first-bottle was 2:1 and in the second bottle was 7:1. He emptied both bottles into an empty pail. What was the ratio of the amount of oil to the amount of water in the pail?

Ans: _____

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-	uestion.	:	аскетs [ ] at т —	ne end of each q ( Total:	uestion or 50 marks )
16.	The pie chart rep	presents the number o	f four types of l	oalls kept in a sto	oreroom.
	 	Volleyballs 35% Football	Basketballs Netballs		
	(a) What pe	rcentage of the balls w	vere netballs?	· ·	
		e 30 basketballs. Find		voilevballs	
· · · · ·			-		····· •
				*****	,
		<u>.</u>	Ans:	(a)	[1]
*,***	<del>rin</del> ,			(b)	[2]
37.	280 fewer shirts	to make a certain nun per day, it will take 5 actory need to make?	days to finish m	3 days. If the fa aking the shirts.	ctory makes How many
		_			
	An				<b>4</b> .
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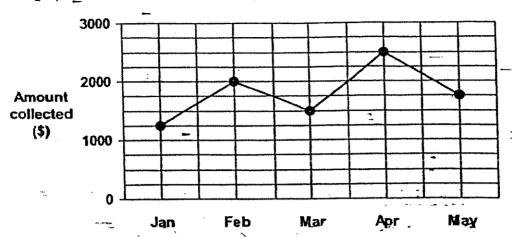
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38. The graph shows the amount of money collected from the sales of files in 5 months.

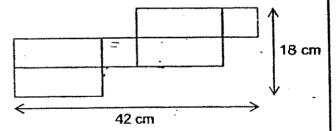
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- (a) What was the decrease in the amount collected from April to May?
- (b) Each file was sold at \$6. How many files were sold from January to May?

•		
Ans:	(a)	
i	[b)	
	*	***

39. The diagram below shows a net of a cuboid which is made up of four identical rectangles and two identical squares. Find the volume of the cuboid.



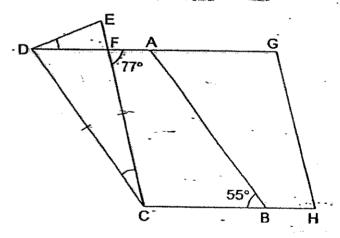
	10
Ans :	[3]

40. Brian and Sonia had 48 books altogether. After Brian bought another 7 books and Sonia gave away 5 of hers, Brian had 18 more books than Sonia. How many books did Brian have at first?

Do not wri in this spa

Ans : _____[3]

- 41. In the figure, ABCD is a parallelogram, CFGH is a rhombus and CD = CE. CBH, CFE and DFAG are straight lines.
  - (a) Find ∠ DCF.
  - (b) Find ∠ EDF.



(b) ______[2

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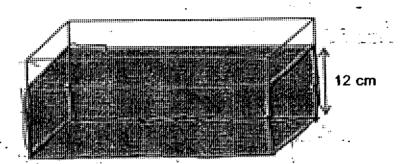
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http://www.TopSchoolExamPapers.com

42. Ann poured 4 full pails of water into an empty rectangular tank which is 80 cm long and 30 cm wide. She then used a hose to fill the tank with more water until the water level reached a height of 12 cm. When Ann took 2 full pails of water from the tank, the water level fell by 1.5 cm.

Do not write in this space

- (a) Find the volume of a full pail of water.
- (b) How much of the water in the tank was filled up using the hose? Give your answer in litres.



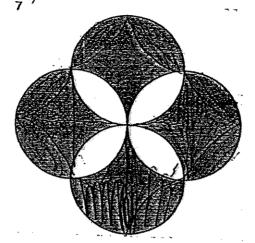
Ans: (a) ______[2]

(b) _____[2]

43. Four identical circles of radius 7 cm are arranged as shown below.

Do not we in this spa

- Find
- (a) the perimeter of one shaded part and
- (b) the total area of <u>all</u> the shaded parts. (Take  $\pi = \frac{22}{7}$ )



(b) _____[2]

44.	was 2:3. When he a ratio became 4:3 and	er of guppies to the number of goldfi dded a total of 70 guppies and goldf I the number of guppies became 100		Do not write in this space
	did Mr Chua add into	he pond?		
		Name .		
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		Ans:		[4]
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Debra played a computer game For every rocket that hits an en For every rocket that hits one of When a rocket does not hit an	of her own planes about 5	
When a rocket does not hit any Debra fired 392 rockets. 65 of she scored a total of 1650 poin	thom did not bit and a second	
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	Ans :	[4]

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46. Neil made a journey from City X to City Y. He covered  $\frac{1}{3}$  of the journey in  $1\frac{1}{2}$  h. In the next  $2\frac{1}{4}$  h, he covered another  $\frac{2}{5}$  of the journey. He then took 1 h 15 min to travel the remaining 96 km. Find his average speed in km/h for the whole journey.

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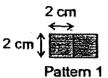
Ans: (a) _____[2]

(b) _____[3]

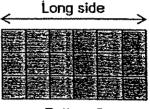
the re	est. In August, the sum of money was amount of money on tuition but incr in August.	oney on tuition, 60% on food and saved is increased by 15%. She spent the eased her savings by 30%. She saved	D _i
(a)	How much money did she spend o	on tuition in July?	1
(b)	How much did she spend on food	in August?	
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	-	Ans: (a)[2]	
		(b)[3]	
	•	•	

48. Chun Ying used 2-cm square tiles to make rectangles as shown below.

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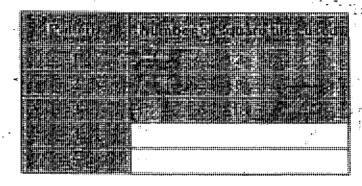




Pattern 2

Pattern 3_

The table shows the number of tiles used for each pattern.



(a) Complete the table above for Pattern 4 and Pattern 5.

[2]

- (b) The length of the rectangle of a certain pattern is made up of 50 tiles. Find the perimeter of this rectangle.
- (c) What is the area of the rectangle formed in Pattern 96?

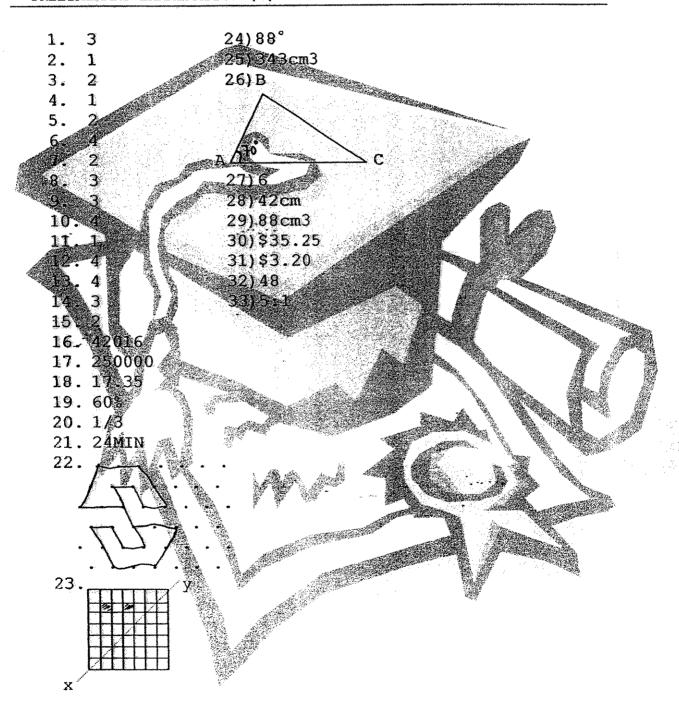
(c) [2]

End of Booklet B

Set by : Mr Yip K W, Mrs Valerie Loo, Mr Enrico Tong & Mr Teng B C Vetted by: Mrs Agnes Chua



PEI CHUN PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS ~2007 PRELIMINARY EXAMINATION (2)



34) area  $\rightarrow 1/2x \pi x 16/2x 16/2-1/2x \pi x 12/2x 12/2$ 

 $=1/2x \pi x8x8-1/2x \pi x6x6$ 

 $=32 \pi - 18 \pi$ 

 $=14 \pi cm2$ 

35)37:11

- 36) a) 100%-25% 25%-35%=15%
  - b) 25% 330

508-->30/5=6

図58-->6x7=42

7),2 units→280x5=1400

Sunit→1400/2=700

 $700 \times 3 = 2100$ 

- 38)a)d<del>3</del>\$2500-\$1750=\$750
  - b) total amount 2\$1250±\$2000+\$2500+\$1500=\$9000

=1250files→\$9000/\$6=\$1500

39) B→18/3 = 6

 $L \rightarrow (42+6-6) = 2=15$ 

H->6

Volume  $\rightarrow$  6x6x15=540cm3

- 40) 27
- 41) a) 180° -55° =125°

 $180^{\circ} - 77^{\circ} = 103^{\circ}$ 

 $\angle DCF = 125^{\circ} - 103^{\circ} = 22$ 

b)  $(180^{\circ} - 22^{\circ}) \div 2 = 79^{\circ}$ 

 $\angle EDF = 79^{\circ} = 55^{\circ} = 24^{\circ}$ 

- 42) a) volume  $\rightarrow$  1.5 cm x 80 cm x 30 cm  $\div$  2=1800 cm 3
  - b)  $4pails \rightarrow 1800 cm 3x 4 = 7200 cm 3$

80cmx30cmx12=28800cm3

28800cm3-7200cm3=21600cm3

=21.6 L

```
43) a) p\rightarrow1/2x22/7x (7x2) +1/2x22/7x (7x2)
      =22/7x14=44cm
   b) 1/4x22/7x7x7=38.5
      38.5x8=308
       7 \times 7 = 49
       49^{-38.5}=10.5
       10.5x8 = 84
       308+84=392cm2
   Fishes (After) \rightarrow 100/4x7=175
                         175-70=105
    Gold fish (after) \rightarrow 100/4x3 = 75
    Gold fish (before) →105/5x3=63
                            7.5 = 69 = 1.2
45) 392-65-327
    If all hit enemy plane \rightarrow 327 \times 7 = 2289
    2289-1650=639
    639/7points 2 pants=71
    327271=256
46) a) 360km
    b) 72km/h
47) a) saving (before) →100%-20%-60%-20%
       Saving (after) \rightarrow 30/100 \times 20\% + 20\% = 26\%
       26%-->$390
       18-->$390/26=$1
                                           48)a)32,50
       20%-->$300
   b) 1%-->$15
                                              b) 50/2=25
      100%-->$1500
                                                 B \rightarrow 25 tiles
      115%-->$172
                                                 L \rightarrow 50 tiles
      100%-->$1725
                                                 P \rightarrow 25 \times 2 \text{cm} \times 2 + 50 \text{cm} \times 2 \text{cm}
      100%-26%-20%=54%
                                                 x2=100cm+200cm
      $1725-$390-$300=$1035
                                                 =300cm
                                               c) 96x8 = 768
                                                  768x96=73728cm2
```

---end---



## PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 CONTINUAL ASSESSMENT 1 **MATHEMATICS PRIMARY 6**

Name	*			)
Class	**************************************	· · ·	**************************************	_ (6)
Date	*	 -		·····
Parent's Signature	•			•

## **BOOKLET A**

Total time for Booklet A and B : 2 hour 15 minutes

Booklet	Type	Max. Marks	Marks Obtained
A	Multiple-Choice	20	
	Short-answer	30	
В	Structured /	50	
	Long-answer		
	Grand Total	100	

#### **INSTRUCTIONS TO CANDIDATES**

- Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided.
- Check your work carefully.

#### Pei Hwa Presbyterian Primary School 2007 Continual Assessment 1 <u>Mathematics</u> Primary 6

Booklet A		

Section A: (20 marks) Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For

your	r choice	lon, four optio e (1, 2, 3 or 4) eet provided.	ns are given. and shade th	One of their	m is the cor val accordin	rect answer. Ma gly on the Optic	ike cal
1.	A ma How	chine can print many pages ca	12 pages in a l n it print in an l	minute. hour?			
	(1)	72	*. *.	•		••	
	(2)	144				ş	
	(3)	180			^	• •	
	<b>(4)</b>	720	2577475	•		(	)
2.	And <u>y</u> How	y, Bryan and Cle much money d	ement shared : lid Bryan recei	\$1800 in the r ve?	ratio 2 : 3 : 4.		
	* *	, <b>4</b> -00	~(·······				
	(1)	\$200					
	(2)	\$400					
• • •	(3)	\$600		***		ه پرخت	
•	(4)	\$800		•	•	(	برد
3.	The Wh	inumber of tove	s at Stall B was the number of	s five times th	e number of 1	of toys at Stall C toys at Stall C. ber of toys at Stal	
	(1)	1:2:5					
	(2)	2:5:1					
	(3)	10:5:1					
	(4)	2:10:1				_	

)

)

)

- For every 10 parcels Company A delivered, 2 were delivered late.
   Express the number of parcels that were delivered on time as a fraction of the total number of parcels delivered.
  - (1)  $\frac{1}{5}$
  - (2)  $\frac{1}{6}$
  - (3)  $\frac{4}{5}$
  - (4)  $\frac{5}{6}$
- 5. The table below shows the number of vehicles sold by Mr Tan from August to December last year.

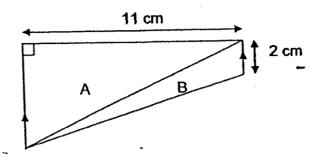
Month	August	September	October	November	December
Number of vehicles	12	25	50	42	21

In which month did Mr Tan sell half as many vehicles as the month before?

- (1) September
- (2) October
- (3) November
- (4) December
- 6. Express y km 70 m in metres.
  - (1) 70y
  - (2) y + 70
  - (3) 1000y + 70
  - (4) 1070y

·(...)

7. The diagram below is not drawn to scale. It is made up of 2 triangles. The area of Triangle A is 4 times the area of Triangle B.

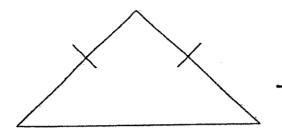


What is the area of Triangle A?

- (1) 11 cm²
- (2) 22 cm²
- (3) 44 cm²
- (4) 88 cm²
- 8. Gigi used half of her pocket money to buy a key chain and  $\frac{1}{3}$  of the remainder to buy a pencil. What is the ratio of the cost of the key chain to the cost of the pencil?
  - (1) 1:3
  - (2) 2:3
  - (3) 3:1
  - (4) 3:2
- 9. Sally's height is  $1\frac{2}{3}$  times that of Jacob's.

  What is the ratio of Sally's height to their total height?
  - (1) 3:5
  - (2) 5:3
  - (3) 3:8
  - (4) 5:8

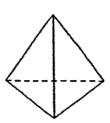
10. The isosceles triangle below is not drawn to scale.



The size of the angles are in the ratio 1:2:1.
- What is the size of the smallest angle?

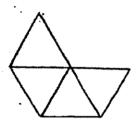
- (1)  $40^{\circ}$
- (2) 45°
- (3) 50°
- (4) 90°
- 11. Peggy, Robert and Sarah share some money in the ratio 3:4:5 respectively. If Sarah gives Peggy \$a, each of them will have the same amount of money. How much money does Robert have?
  - (1) \$5a
  - (2) \$2a
  - (3) \$3a
  - (4) \$4a
- 12. Amina weighs x kg. Shimin is 9 kg heavier than Amina but 6 kg lighter than Qi En. Find the total mass of the three girls in terms of x.
  - (1) (x + 3) kg
  - (2) (x + 15) kg
  - (3) (3x + 3) kg
  - (4) (3x + 24) kg

13. The figure below shows a triangular pyramid. The faces are all equilateral triangles.

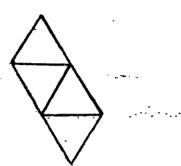


Which of the following nets shown below can be folded to form the pyramid?

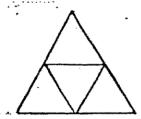
(A)



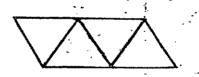
(B)



(C)



(D)



)

- (1) A and B
- (2) A and C
- (3) B, C and D
- (4) All of the above

14. A farmer divided his land among his 3 children.

One child got  $\frac{2}{3}$  of the land while the other 2 children shared the remaining land

in the ratio 3:7. What is the ratio of the smallest share to the largest share of land?

- (1) 2:3
- (2) 2:7
- (3) 3:7
- (4) 3:20

- 15. William is 4 years older than his 12-year-old brother.
  What is the ratio of William's age to his brother's age in 10 years' time?
  - (1) 4:3
  - (2) 8:11
  - (3) ..... 13:6
  - (4) 13:11



## PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 CONTINUAL ASSESSMENT 1 MATHEMATICS – PRIMARY 6

Name		)
Class	•	(6)
Date	• •	

## **BOOKLET B**

Question No.	Max. Marks	Marks Obtained
16 25	10	
- 26 – 35	20	
36 48	50	
Total	- 80	

### INSTRUCTIONS TO CANDIDATES

- Do not turn over this page until you are told to do so.
- Follow all instructions carefully and show all workings carefully.
- Answer all questions and show all workings clearly.
- Write your answers in this booklet.
- Check your work carefully.

#### Pei Hwa Presbyterian Primary School 2007 Continual Assessment 1 <u>Mathematics</u> <u>Primary 6</u>

Name	e:( )	- Totai:	/ 30
Class	s:6	Date: 27 Fe	ebruary 2007
Ques for e	let B on B: (30 marks) tions 16 to 25 carry 1 mark each ach question. For questions whi stated.	n. Write your answer in the sich require units, give your	space provided answers in the (10 marks)
<del>16</del> .	Kelly used the calculator to find ou What is the value of 537 x 99 89	ut that 537 × 99 889/= 53 640 0?	393.
			e en
*. -	·	Answer:	- i.
17.	Simplify (2w)+ 12 ÷ 6 + 6w)-(2w)	+ 8.	-
*			
		Answer:	-
18.	If $p = 6$ , find the value of $\frac{138-11}{2p}$		
		Answer:	

Xenia and Zoe have \$g attogether.
 Zoe has \$8 less than Xenia.
 Find the amount of money Xenia has in terms of g.

Answer: \$_____

8 scoops of ice-cream cost \$m.
 How much does Gardner pay for 6 scoops of ice-cream?
 (Express your answer in the simplest form.)

Answer: \$

21. A box contains *k* black pens and red pens. For every 4 black pens, there are 3 red pens. Find the number of black pens in the box.

Answer:

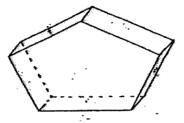
22. Raisin buns were sold in packets of 5. Each packet cost \$2.25. How many packets of raisin buns could Renee buy with \$10?

Answer:

23. A baker made some custard puffs and durian puffs. He packed 2 custard puffs and 3 durian puffs in each box. He packed à total of 15 boxes. What fraction of the total number of puffs were custard puffs? (Express your answer in the simplest form.)

Answer:	

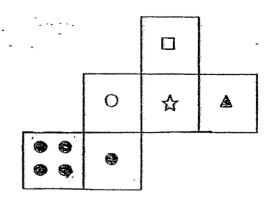
24. Find the number of/rectangular faces in the solid below.



25. The cube is made from the net on the right.

Circle the correct square in the net that will appear on the base of the cube.





Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answer in the space provided for each question. For questions which require units, give your answers in the units stated.

(20 marks)

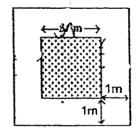
26. Ψ and  $\Omega$  represent two different whole numbers. If  $\Psi \times \Omega = 84$ , what is the smallest possible value of  $\Psi + \Omega$ ?

Answer:

27. Selena bought 5 blue pens at  $b \not \in$  each and 2 red pens for \$2. Find the average cost of the pens that Selena bought.

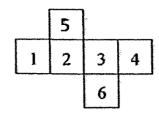
Answer: ______@

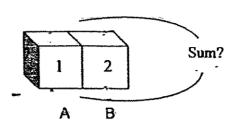
28. A fence is to be built one metre away from the sides of a square field. Each side of the square is 3f m. Find the total length of the fence needed.



Answer: _____m

29. Cubes A and B have the same net as shown below.





Find the sum of the numbers at the top and bottom of the 2 cubes A and B as shown above.

Answer:		

30.  $\frac{1}{3}$  of the weight of a durian is  $\frac{1}{2}$  the weight of a papaya. How many times as heavy as the papaya is the durian?

Answer:

31. The ratio of Hannah's weight to Priscilla's weight is 2 : 3. Hannah weighs 12 kg 10 g less than Priscilla. What is their total weight in kg?

Acquiric Company and a second and a second a sec

Answer: ____kg

32. The parking charges at a car park are shown in the table below.

1 st hour or part thereof	\$1.20
Subsequent half an hour or part thereof	\$0.50

Mrs. Lee had to pay \$3.70 for parking her car at the car park. What was the longest duration she could have parked?

		*	L
Answer:	··· ·		_II

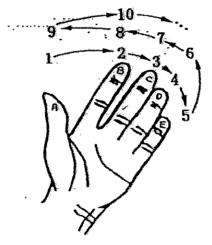
- 33. In a Mathematics quiz, Ann's score to Ben's score is 3 : 4 and Ben's score to Carol's score is 3 : 5.
  - · What fraction of Ann's score is Carol's score?

	•
Answer:	

34. Esther's score in a Science test was both 12th highest and 23rd lowest in her class. How many pupils were there in her class?

Answer:

35. John uses his left hand to count from 1 to 10 as shown in the diagram below. Which finger does the number 402 land on?



Answer:

# Pei Hwa Presbyterian Primary School 2007 Continual Assessment 1 Mathematics Primary 6

Name:	. (	)	Total:	1 50
-				
Class:	- 6		Date: 27 Fel	bruary 2007

**Booklet B** 

Section C: (50 marks)

For questions 36 to 48, show your working clearly in the space provided for each question and write your answer in the space provided for each question.

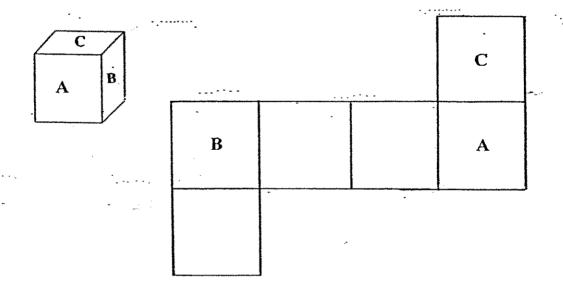
The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

36. The figure below shows a cube with letters A to F written on it.

Place the letters D, E and F in the net below such that they correspond to those on the cube.

D is opposite B, E is opposite A and F is opposite C.

[3]



37. Gerald received 10 hongbaos during Chinese New Year.

Five of them contained \$20 each and three of them contained \$12 each.

He used the money in the remaining 2 hongbaos to buy 4 t-shirts at \$12.50 each.

How much money was there in all the hongbaos Gerald received?

Answer: _____[3]

38. If  $\frac{1}{2}$  of a number is d, what is  $\frac{3}{5}$  of the number?

Answer: _____[3

39. Miss Lim bought some sweets for her class.
If she gave each pupil 4 sweets, she would have 200 sweets left.
If she gave each pupil 7 sweets, she would have 20 sweets left.
How many pupils are there in Miss Lim's class?

Answer:_____[3]

40. Helen spent  $\frac{1}{2}$  of her money on a watch. Her mother gave her \$h\$ more.

She later spent  $\frac{2}{3}$  of what she had on a skirt.

After all her shopping, Helen had \$2h left.

- (a) What is the cost of her skirt?
- (b) How much money did Helen have at first?

Answer: (a) _____[1]

(b) ____[2]

41. In a hall, there are rows of chairs.
The first row has one chair fewer than the second row.
The second row has one chair fewer than the third row.
This pattern carries on and there are 40 chairs in the 25th row.
How many chairs are there in the first row?

Answer:	[3	1

42. There were 240 pupils in a hall. The ratio of the number of girls to the number of boys was 2:3. After some girls left the hall, the ratio of the number of girls to the number of boys became 2:4. How many girls left the hall?

Answer: _____[4]

43. Baker Tan and Baker Lim bought the same number of eggs. Baker Tan used 240 eggs and Baker Lim used 165 eggs. After that, Baker Lim had four times as many eggs as Baker Tan. How many eggs did each of them have at first?

Answer: _____[4

44. A school bus can carry a total of 30 adults or 45 children.

There were 84 adults and 50 children already seated in 5 school buses.

How many more children can be seated in these 5 school buses?

Answer: [4

45. Joyce went to the book store with \$80, which was just enough to buy 5 files and 4 notebooks. When she reached there, she bought 4 files and 5 notebooks instead — and had \$7 left.

Find the cost of 1 file.

Answer: _

46. Jerry, Kirk and Lora had a total of 230 stamps.

Jerry lost  $\frac{1}{5}$  of his stamps. Kirk received 55 more stamps as a birthday present.

Lora bought some more stamps and tripled his original number of stamps.

The ratio of the number of stamps Jerry, Kirk and Lora had then became 2:3:6.

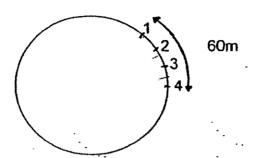
How many stamps did Kirk have at first?

Answer: _____[5]

47. On Day 1, Alvin had \$18.
After that day, he was given \$10 daily.
He gives his brother \$2 every 3 days.
On which day will Alvin have exactly \$280?

Answer:		[5]
---------	--	-----

- 48. Mr Lim planted some cherry trees in a circle with the same distance apart. The distance between the first and the fourth tree was 60m.
  - (a) Find the distance between the first and the tenth tree
  - (b) If 50 trees were planted and Mr Lim tied a rope to fence up the area, find the length of the rope needed.



Answer: (	(a)	[3]
4	(h)	[2]

#### **End of Paper**



# ANSWER SHEET

PEI HWA PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 CONTINUAL ASSESSMENT (1)

	_			
	1.4	31) 60: 05 kg	37) 20x5=100	
	2.3	3295 4	12x3=36	
	3.2	<b>33)</b> 22/9	12.50x4=50.00	
	4.4	´ 34) 34 <u> </u>	50+100+36=186	
ari.	5:4	35)B 🗼 c	Gerald received \$18	36
	6.3	36) B E D A	in all the hongbaos	S .
e de la composition della comp	7.3	F F		
	8.3		38) dx2=2d ( 🧨	
	9.54		2xd=5 <u>=</u> 2d	
	10: 2		$\frac{1}{5}$	
<b>4</b> 44	11:-4		2 <b>:0</b> 5x3=2d x3	
	12. 4		A STANCE OF THE	
	13. 2			
1	14. 4		=6d 57	
	15. 4			
	16. 5364	นดูรถ	3 of the number is	<u>60</u>
	17.516w+			jo
	18. 6			
	19. g+8/	Fig. Market in a Control of the Cont	1 <b>u→18</b> 0 = 3=60 %	-64
	20./3/4m	1326 1375	There were 60 pur	
	21: 4k/7		in Miss Lin's cla	SS
	22. 4			in.
	23. 2/5		· 40) a) 1u->2h	
	245		2 <b>u→</b> 2hx2=4h	ESE MAN
	25.		The cost of the	
	<u> </u>		Skirt is \$(4h)	
		を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現る。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表現する。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表しる。 を表し。 を表しる。 を表しる。 を。 を。 を。 を。 を。 を。 を。 を。 を。 を	ACCUPATION TO SERVICE STREET STREET STREET STREET	

Skirt is \$(4h)

b)1 of remainder→6h

Before her mum gave

her→6h-h=5h

At first→5hx2=10h

She had \$10h at first

29.22

26.7,12

27.5b+200

28.1 side (3f)

30.1 ½ times

Total 4 (3)

```
41) There are 16 chairs in the first now.
42) 12+8=20
   240÷20=12
   811-6u=2u
   \rightarrow 12x2=24
   24 girls lef
43) 240-165=
   BL→25×4=100
   BL→100+165=265
   BT 240+25-265
   Each of them had 265 eggs at first.
44)A:
                   (Adult)
  30 :45
                    150-84-66
  5b→5x30=150
                    3u"→99
                    99-50-48
      48 children can be
45) 4fx7=28
   $80-28=52
   $52-7=45
   $45÷9=5
   5+7=12
   The cost of 1 file is $12
46) 15u -> 230+55=285
     1u \rightarrow 285 \div 15 = 19
     6u \rightarrow 19x6 = 114
   Kirk had at first \rightarrow 114-55=59
   Kirk had 59 stamps at first.
47) On day 29 Alvin will have exactly $280
48) a) 60 \div 3 = 20
                                b) 50x20=1000m
      20x9=180
                                   The length is 1000m.
```

The distance is 180m

# a Tutor to go through the Papers http://www.yestuition.sg PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 SEMESTRAL ASSESSMENT 1

### **MATHEMATICS PRIMARY 6**

Name	•	. (		)
Class -	:,	-	_6	
Date	:		<i></i>	
Parent's Signature	:			

## **BOOKLET A**

Total time for Booklet A and B : 2 hour 15 minutes

Booklet	Туре	Max. Marks	Marks Obtained
Α	Multiple-Choice	20	-
	Short-answer	30	
В -	Structured /	50	
<u> </u>	Long-answer		
G	Grand Total	100	

#### **INSTRUCTIONS TO CANDIDATES**

- Do not turn over this page until you are told to do so.
- · Follow all instructions carefully.
- Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided.
- Check your work carefully.

)

#### Pei Hwa Presbyterian Primary School 2007 Semestral Assessment 1 Mathematics Primary 6

**Booklet A** 

Section A: (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval accordingly on the Optical Answer Sheet provided.

- A sum of money was shared among Ross, David and Tom in the ratio of 3:4:7.
   What fraction of David's share was Tom's share?
  - (1)  $\frac{3}{4}$
  - (2)  $\frac{3}{7}$
  - (3)  $\frac{4}{7}$
  - (4)  $\frac{7}{4}$
- 2. The table below shows the time taken by four runners in a 400m race.

Amanda	Louis	Nick	Susan
1/2 min	3 min	96 s	1 min 24s

1

Who is the fastest runner?

- (1) Amanda
- (2) Louis
- (3) Nick
- (4) Susan

3.		in had 2 kg 40 g of f much flour did he u	flour. He used 25% o	of it to bake a cak	e.	
	(1)	60 g				
	(2)	408 g				
	(3)	510 g				
		-				
	(4)	<b>60</b> 0 g		•		,
			**		,	-
4.		s salary is 60% of R	•	_		
	if Bo	a's salary is \$1 200,	, what is Rain's sala	ry?		
-	(1)	\$720				
	(2)	\$1 680	•		·	
	(3)	\$1 920				
	(4)	\$2 000				
	(-7)	φ2. 000			(	····;
5.		ng a sale, the price of the percentage dec	of a pair of shoes wa	as reduced from S	\$125 to \$100.	
. * * * * * * * * * * * * * * * * * * *	. (1)	209/	•	• •	********	
	(1) (2)	20% 25%		- *		
	(2) (3) -	75%				
	(4)	80%				
	(7)	60 70	•		(	)
6.		. ^	as 20% more than . dan's money is Mich		as much as Mi	chael.
	(1)	60%				
	(2)	62.5%				
	(3)	120%				
	(4)	160%				
					(	)

)

7. The number of June Ting's marbles was 50% the number of Shi Ming's marbles.

After Shi Ming gave 5 marbles to June Ting, the number of Shi Ming's marbles

decreased by 25%.

How many more marbles did Shi Ming have than June Ting at first?

- (1) 10
- (2) 20
- (3) 50
- (4) 40
- 8. Keanu drove for 2 hours at an average speed of 75 km/h.

During this time, he travelled  $\frac{2}{5}$  of the journey.

What was the distance for the whole journey?

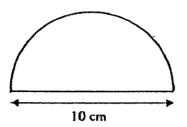
- (1) 60 km
- (2) 150 km
- (3) 225 km.....
- (4) 375 km
- 9. Trisha jogged at an average speed of 6 km/h for a distance of 2 400 m. Find the time taken in minutes.
  - (1) 400
  - (2) 24
  - (3) 2.4
  - (4) 0.4

3

(

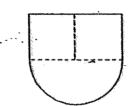
-)

10. Find the perimeter of the semi-circle below. Take  $\pi$  as 3.14.



- (1) 15.7 cm
- (2) 25.7 cm
- (3) 31.4 cm
- (4) 41.4 cm
- 11. The figure below is made up of two squares and a semi-circle. Each side of the square is 7 cm. Find the perimeter of the figure.

(Take  $\pi = \frac{22}{7}$ )



- (1) 50 cm
- (2) 72 cm
- (3) 78 cm
- (4) 100 cm
- 12. Qi En made some cheese buns to sell at her shop.

  She sold 40% of the buns on Friday and  $\frac{2}{5}$  of the remainder on Saturday.

  What percentage of the buns did she sell?
  - (1) 24%
  - (2) 36%
  - (3) 64%
  - (4) 70%

)

)

)

13. The table below shows how Elicia spent her pocket money last week.

Expenditure		Stationery	Food	Books
Amount (\$)	14	8	10	?

Elicia spent 20% of her pocket money on transport and food. How much did she spend on books?

- (1) \$78
- (2) \$88
- (3) \$96
- (4) \$120

14. A part of the concert programme planned for Teachers' Day is shown below.

Time	ltem
7.35 a.m.	Speech by Principal
····7.50 a.m.	Skit by Pri 6E
8.25 a.m.	Dance by Pei Pei Super Dance Troupe

On the day of the concert, Pri 6E took 8 minutes more to perform the skit than planned. How long did the skit last?

- (1) 53 minutes
- (2) 43 minutes
- (3) 33 minutes
- (4) 27 minutes

15: ... All drove at a speed of 10y km/h for an hour. He then doubled his speed to cover the next 60y kilometres. What was his average speed for the whole journey?

- (1) 3y km/h
- (2) 15y km/h
- (3)  $17\frac{1}{2}y \text{ km/h}$
- (4) 70y km/h

5



## PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 SEMESTRAL ASSESSMENT 1 MATHEMATICS PRIMARY 6

Name		•	:	Į	· )
Class			**		6
Date	-	m.	:		

### **BOOKLET B**

Question No.	Max. Marks	Marks Obtained
16 25	10	
26 – 35	20	
36 48	50	
Total	80	-

#### **INSTRUCTIONS TO CANDIDATES**

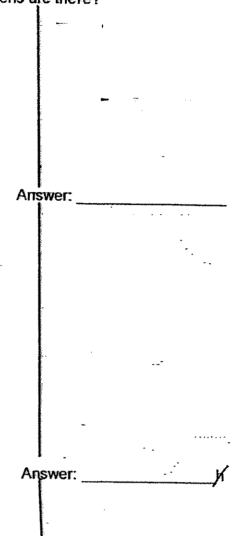
- Do not turn over this page until you are told to do so.
- Follow all instructions carefully and show all workings carefully.
- Answer all questions and show all workings clearly.
- Write your answers in this booklet.
- Check your work carefully.

Book Section	**************************************			-
Ques for ea	on B: (30 marks) tions 16 to 25 carry 1 mark each. ach question. For questions whic stated.	Write your a h-require un	answer in the s its, give your	space provided answers in the (10 marks)
16.	Express 9.5% as a decimal.	-	·	
			Answer:	
17.	What is 15% of 170?	,		· . <u>.</u>
	ermen.		Answer:	
18.	At a sale, the price of an X-Box was What was the price of the X-box bet			
				,
	•		A power of	
19.	In a quiz, Stilton answered 60% of t He answered 12 of the questions w How many questions were there in	rongly.	Answer: \$ correctly.	-
			Answer:	

Top School Exam Papers

http://www.TopSchoolExamPapers.com

20. In a box, there are 4 blue pens and 3 red pens to every green pen. If there are 112 pens altogether, how many red pens are there?



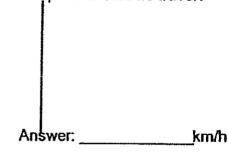
21. Stella left her house for the library at 10 45 /s.
The journey took her 1 h 40 min.
What time would she arrive at the library?

★ 22. Asman jogs 200 metres in 4 minutes. What is his speed?

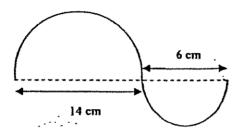
Answer:	km/l
i.	

23. Mr. Loh travelled from Singapore to Kuala Lumpur at an average speed of 90 km/h for  $3\frac{1}{2}$  hours.

If he wanted to return to Singapore in 3 hours, at what speed should he travel?



24. The curve, not drawn to scale, is made up of 2 semi-circles as shown below.

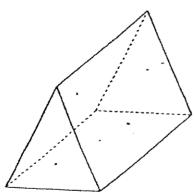


Find its length. (Leave your answer in terms of  $\pi$ .)

Answer:	CIT

25. Look at the diagram below.

How many more rectangular than triangular faces are there?



Answer:	

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answer in the space provided for each question. For questions which require units, give your answers in the units stated.

(20 marks)

26. A packet of sugar was shared between Navela and Yasmin in the ratio 1 : 3. Navela used  $\frac{1}{2}$  of her share to make jelly and had m kg left. How much was Yasmin's share?

Answer: ___ ko

27. There were as many boys as girls in the hall at first.
12 more boys came into the hall and the total number of children increased by 20%. How many boys were in the hall at first?

Answer:

28. There are 10% more tea bags than coffee bags in a drawer.
If there are 231 tea and coffee bags in the drawer, how many tea bags are there?

Answer:

	<b>6</b> mm			
29.	Serene had \$100.			
	She spent 60% of the mone	y on clothes and	60% of the remainder on CDs.	
	How many per cent more di	d she spend on c	iothes than on CDs?	
• •		. •		
* .				
	-		• •	
20	<b>0.</b>		wer:	%
30.,		lenna and Henna	is 20% heavier than zzy	
	How many per cent heavier	is Gloria than Izz	y?	
			, • · · ·	
		<b>~</b> *		
		•		
		• <u>-</u>		
	• • • • • • • • • • • • • • • • • • • •	•		
		• -	Answer:	%
31.	Diana began watching a mov	ie which started	at 11 45 a.m.	
	After the movie, she took 50	minutes to walk I	at 11.40 d.m.	
	She reached home at 2.25 p	m How long was	the mark 2	
		and flow long was	Tué mone i	
			-	
	•			

32. Bibi cycled at 28 km/h for  $\frac{3}{4}$  hour. She also jogged at 12 km/h for 45 minutes. Find the average speed of Bibi for the two activities.

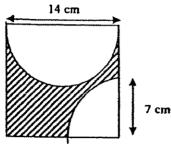
Answer: _____km/h

33. Joe swam 600 m at a speed of 25 m/min.

If he started at 7.45 a.m., at what time did he stop swimming?

Answer:

34. The figure, not drawn to scale, shows a square, a semi-circle and a quadrant.



Find the perimeter of the shaded part. (Take  $\pi = \frac{22}{7}$ )

•	
\nswer:	cm

35. To travel from Singapore to Port Dickson, Takashi can take a plane, a train or a car. To travel from Port Dickson to Penang, he can take a plane, a train, a car or a ferry.

How many different ways can Takashi take to travel from Singapore to Penang?

# Pei Hwa Presbyterian Primary School 2007 Semestral Assessment 1 Mathematics Primary 6

Nam	2	)	Totai:	<i>l</i> 50 .
Class	ass:6 Date: 4 M			y 2007
Secti For a ques The	klet B ion C: (50 marks) questions 36 to 48, show you tion and write your answer i number of marks available is tion or part-question.	n the space provide	d for each que	stion.
36.	Frank had \$30. He bought 5 How much money had he let	-		··
	n.et	. 199 ² . 198		
	-			
*				
			z.	e regul
	•			
	-		-	•
			Answer:	[3]
			Allowel.	[o]

37. Fern and Wilbur shared 189 sweets in the ratio 4:5.

Fern gave some of her sweets to Wilbur and the new ratio of Fern's sweets to Wilbur's sweets became 2:5. How many sweets did Fern give to Wilbur?

\nswer:_____[3]

- 38. In a club, the number of men increased by 20% to 600 and the number of women decreased by 20% to 600.
  - (a) Find the number of men in the club at first.
  - (b) What was the overall increase or decrease in the total membership of the club?

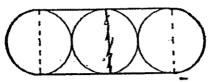
Answer: (a) _____[1]

(b) _____[2

39. An aeroplane took off from Singapore at 9.15 p.m. on Saturday. It landed in Perth at 8.45 a.m. Australian time on Sunday. The time in Perth, Australia is 3 hours ahead of the time in Singapore. How long was the flight?

	•		
40.	The average age of 4 men was 40 years old.  None of the men was younger than 25 years old.		
	What was the largest possible age of the oldes	•	
	· ····································		-
,			
	•	Answer:	[3]

41. Jenny wants to tape three similar cans together with some sticky tape as shown below.



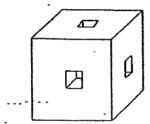
The diameter of each can is 14 cm.

Find the length of the sticky tape she needs. (Take  $\pi = \frac{22}{7}$ )

Answer	13	1
WIIZMCI*	 Γ	J

42. Samuel took a 5-cm clube and cut out a 1-cm cube from each of its 6 faces.

What is the surface area of the remaining figure as shown in the diagram below?



Answer:	4	

43. Rowena travelled from Higgety Town to Lollipop Town.

She covered the first 135 km at 90 km/h and completed the remaining journey at 80 km/h for 1 ½ h. Sabrina took another route and she travelled 15 km less than the route Rowena travelled.

If Sabrina's average speed for her whole journey was 96 km/h, how much less-time did Sabrina take to complete the journey than Rowena?

Answer: _____[4]

44. Baker Tan baked some cookies to sell.

She baked 10% of the cookies on the first day.

On the second day, she baked 25% more than on the first day.

She baked 9 more cookies on the third day than on the second day.

By then, she had baked 50% of the cookies.

How many cookies did she bake in all?

Answer: [4]

- 45. Stephanie and Tanya shared \$64 between themselves. When their mother gave them another \$10 each, Tanya had 32% less money than Stephanie.
  - (a) How much money had Tanya in the end?
  - (b) What was the ratio of Tanya's money to Stephanie's money at first? Give your answer in the simplest form.

Answer:	(a)	[2]
---------	-----	-----

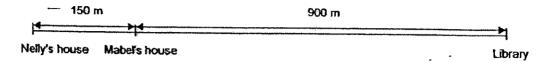
46. Jerry filled a 10-litre jar with syrup.

He then poured out 1 litre of the syrup from the jar and filled the jar with water. After that, he poured out 1 litre of the mixture from the jar and refill the jar with water.

Lastly, he poured out another 1 litre of the new mixture from the jar and refilled the jar with water. What is the percentage of syrup in the jar now?

Answer:	[5]

47. Mabel and Nelly wanted to cycle to the library.



Mabel started cycling at an average speed of 50 m/min from her house. Nelly started from her house, which was 150 m behind Mabel's house. She cycled at an average speed of 75 m/min. Both of them started cycling at the same time.

- (a) When Nelly reached Mabel's house, how far was Mabel ahead of her?
- (b) The library was 900 m away from Mabel's house.
  - When Nelly reached the library, how far from the library was Mabel?

Answer:	(a)	[2]
	(b)	[3]

Emily had a rod. She marked it in three different ways. 48. First, she marked the rod into ten equal parts. Without erasing the first set of markings, she then marked the rod into 12 equal parts. Finally, she added another set of markings by marking the rod into 15 equal parts. If she cut the rod according to the markings she had made, how many parts would she get?

Answer: ______[5]

**End of Paper** 



## ANSWER SHEET

PEI HWA PRIMARY SCHOOL - PRIMARY 6 MATHEMTICS 2007 SEMESTRAL ASSESSMENT (1)

THEO FIVER	TAYOUNG TAY	( ± ½	
1.4		27)20%>12	
2.1		190%>12x5=	:60
		60÷2≡30boys	00
3.3		90∓Z=3990 <u>Y</u> S	Men.
4.4		/# 0021000-1100 01	<b>A</b> 3
5.1		28)100%+110%=21	U6
6.1		2108>231	30/3 101 + 1
7. 1		L1U*>231/21UX1	10/1=121 tea bags
8.4		0011500	
9.2		29)150%	
10.			
11.	1	30)1zzy→100%	
12.	3	Henna⇒120%	
13,	2	Cloria→120/	100x120=144
14. 15.	2 🧼	%>144-100 ⁻	=448
15.	<b>)</b>		
16.	0.005	31)1h 50min	
17.	<b>2</b> 5.5		
18.	\$800	32)28/1 <b>x</b> 3/4=21	km
19.	30	21+9=30	
20.	42 red pen	3 ₄ +3/4=6/4	
	1225	=12/4	
	3 km/h	=1 ½ h	
23.	105km/h	12/1x3/4=9km	
24.	10Πcm	30/1 ÷ 6/4=30/1	x4/6
25.	1030035. 10.444	20km/h	_
26.	33333		
		33) 0809	
		7	- <del>v</del>
		34)61cm	
		0 1 , 0 1 Ozee	

35)12

36) k/100x5/1=k/20 30-k/20=30-k/20He had (30-k/20)

37) 4u+5u=9u
1u→189÷9=21
4u→21x4=84
5u→84+21=105
2u+5u=7v
1u→189÷7=27
2u→27x2=54
5u→27x5=135
84-54=30
135-105=30
Fern gave Wilbur 30 sweets.

- 38)a)500 b)50
- 39)9.15pm→8.15am→8.45am 11/4 fight was 8 4 h
- 40) Total→40x4=100

  3 others must be as young as→25x3=75
  160=75=85
  The older person is 85 years old.
- 41) The length is 100cm
- 42) Total surface area

  →5x5x6=150cm3

  Additional area

  →1x1x4=4cm3

  Additional area

  →4x6=24

  Surface area of the remaining fig

  →150+24=174cm3

43)D	135km	120km
<u>S</u>	90km/h	80km/h
7	l ½ h	1 ½ h

D 240 S 96km/h T 2 ½

80/1x2/3 =120 120+135=255

255-15=240

240÷96=2/48/96

=2 4

1 ½ +1 ½ =3h

3h- 2 3 h = 3 h

Sabrina to ok ½ h less than Rowena.

44)1st day→10%

2rd day > 12.5%

 $3^{rd} day \rightarrow 12.5%+9$ 

50-10%-12.5%-12.5%

=15%-->9

5%-->3

100%-->3x20=60

She baked 60 cookies in all.

45) S 100% T 68% 32% 64+10+10=84%

> a) 168%-->84 68%-->84/168x68=34 Tanya had \$34 in the end.

b) Stephanie at first →0.5x100-10=40
Tanya at first →34-10=24
Tanya= Stephanie=24:40
=3:5
The ratio is 3:5

46) It is 72.9%

47) a)  $150 \div 75 = 2$ 50m/minx2=100 Mabel was 100m ahead of her. b) Away > 900-700=200m She is 200m away. end-



### PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 PRELIMINARY EXAMINATION MATHEMATICS -PRIMARY 6

Name			)
Class -	• .		_6
Date	•	·	
Parent's Signature	·	•	

#### **BOOKLET A**

Total time for Booklet A and B: 2 hour 15 minutes

Booklet	Type	Max. Marks	Marks Obtained
Α	Multiple-Choice	20	
В	Short-answer	30	
	Structured /	50	
	Long-answer		
G	Brand Total	. 100 .	~

#### **INSTRUCTIONS TO CANDIDATES**

- Do not turn over this page until you are told to do so.
- · Follow all instructions carefully.
- Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided.
- Check your work carefully.

# Pei Hwa Presbyterian Primary School 2007 Preliminary Examination Mathematics Primary 6

Bo	- k		A
DO	OK	ıет	А

Section A: (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval accordingly on the Optical Answer Sheet provided.

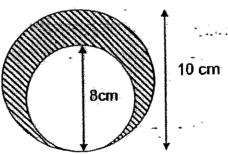
1.	30 o	nes, 50 tenths and 6	60 hundredths is	
	<b>(</b> 1)	30.506	entre en	
	(2)	30.56		
	(3)	35.06	: ::	
	(4)	35.6		
				(
2.	Wha	at is the <u>difference</u> be	etween 3.4 min and 2 min 4 s?	•
•		•		•
	(1)	1 min		
	(2)	1 min 20 s		٠
	(3)	1 min 36 s	<u> </u>	
	(4)	100 s		
				( )
3.	Mrs	Lim bought a watch	at a discount of 30%.	
	She	paid \$210 for it. Wh	hat was the original price of the watch?	
		: : :		^-
	(1)	\$273		r
	(2)	\$300		
	(3)	\$390		
	(4)	<b>6700</b>		

Miss Tan's stride is 47cm. In 6 seconds, she takes 5 strides. . . 4. At this rate, how far can she walk in 1 minute?



- 235 cm (1)
- (2) 282 cm
- (3) 1410 cm
- 2350 cm (4)
- What is the value of  $.32 (7 + 9) \div 4 \times .2$ ? 5.
  - (1) 8
  - (2) 2
  - (3) 24
  - (4) 30
- 6. The figure shows 2 circles.

Find the perimeter of the shaded part in terms of  $\boldsymbol{\pi}$ .



)

- (1) 36π cm
- **(2)** 18π cm
- (3) 10π cm
- (4) 2π cm

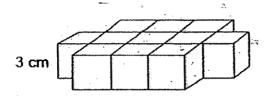
- 7. Mir Lim took 30 min to jog 1500-m. What was his average speed in km/h?
  - (1) 0.75 km/h
  - (2) 5 km/h
  - (3) 3 km/h
  - (4) 50 km/h
- 8. Jean's pocket money was  $\frac{4}{7}$  of her sister's

If she gave  $\frac{1}{2}$  of her money to her sister, what fraction of Jean's pocket money was her sister's?

- (1)  $\frac{1}{14}$
- (2)  $\frac{2}{9}$
- $(3) \frac{2}{7}$
- **(4)**....9
- 9. Lynn was born on 1 December 1998.
  On which day will she be 9 years 11 months old?
  - (1) 1 October 2007
  - (2) 1 November 2007
  - (3) 1 October 2008
  - (4) 1 November 2008

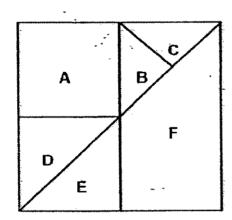
)

10. Matthew made the figure shown below using cubes of sides 3 cm. —
He then painted it red. What was the total painted surface area?



- (1) 243 cm²
- (2)  $297 \text{ cm}^2$
- (3) 333 cm²
- (4) 342 cm²
- 11. The figure below is a square made up of 6 regions, A, B, C, D, E and F. Regions B and C are each  $\frac{1}{16}$  of the figure while regions D and E are

 $\frac{1}{4}$  of the figure.



Which one of the following will **not** form  $\frac{3}{8}$  of the figure?

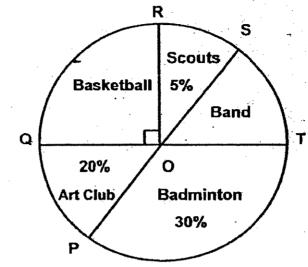
- (1) A and E
- (2) A, B and C
- (3) C, D and E
- (4) B, C, D and E

( .....)

12. The pie chart below shows the pupils' preference for certain CCAs in a secondary school. POS and QOT are the diameters of the circle.

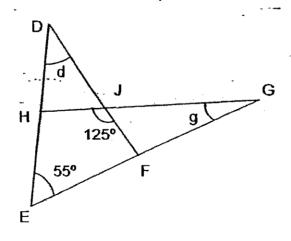
90 more pupils prefer Badminton to Basketball.

What is the number of pupils who prefer the CCA Band?



- (1) 60
- (2) 72
- (3) 120
- (4) 360

13. In the diagram, not drawn to scale, DHE, HJG, DJF and EFG are all straight lines. What is the value of  $\angle d + \angle g$ ?



- (1) 55°
- (2) 70°
- (3) 125°
- (4) 180°

14. The ratio of Amanda's mass to Ben's mass is 2 : 3.

The ratio of Ben's mass to Calvin's mass is 5 : 3.

Ben weighs 45 kg. What is the average mass of the three pupils?

- (1) 30 kg
- (2) 34 kg
- (3) 35上分
- (4) 39 kg
- 15. In a school, 75% of the pupils are girls.

40% of the girls wear spectacles.

Among those girls who wear spectacles, 20% of them walk home from school. How many per cent of the pupils are girls who wear spectacles and walk home from school?

- (1) 6%
- (2) 8%
- (3) 15%
- (4) 60%



### PEI HWA PRESBYTERIAN PRIMARY SCHOOL 2007 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY_6

Name		•
Class		6
Date	*	

#### **BOOKLET B**

Question No.	Max. Marks	Marks Obtained
16 – 25	10 -	
26 – 35	20	
36 – 48	50	
Total	80	

#### **INSTRUCTIONS TO CANDIDATES**

- Do not turn over this page until you are told to do so.
- · Follow all instructions carefully and show all workings carefully.
- Answer all questions and show all workings clearly.
- Write your answers in this booklet.
- Check your work carefully.

**Booklet B** 

Section B: (30 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the space provided for each question. For questions which require units, give your answers in the units stated. (10 marks)

16.  $-\ln \frac{7}{8} = \frac{7+14}{8+1}$ , what is the missing number in the box?

_ ^	
Answer.	
	<del></del>

17. A test began at 11.30 am and lasted for  $1\frac{5}{6}$  hours.

At what time would the invigilator say, "There are fifteen minutes left."? (Leave your answer in 12-hour clock.)

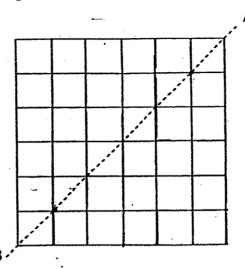
18. There were 6 women and 9 men in a party.

An hour later, another 4 women and 6 men joined them.

In the end, what percentage of the total number of people is the number of women?

Answer:	%
Alizwei.	/0

19. Complete the figure below so that the dotted line AB is the line of symmetry.



20. A fiction book contains n pages. It has 23 pages more than a reference book.What is the total number of pages in both books?(Express your answer in terms of n.)

Answer.

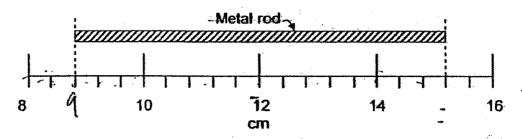
21.  $306 \times 99 = 306 \times B - B - B - B - 6$ Find the value of B.

Answer.

22. The sum of 3 consecutive odd numbers is 387. What is the smallest odd number?

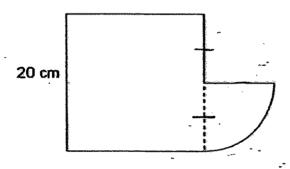
Answer.

23. What is the length of the metal rod in the figure?



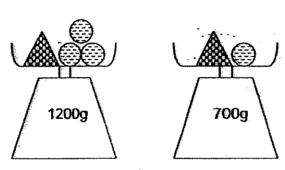
Answer: _____cm

24. The figure below is not drawn to scale and it is made up of a square and a quadrant. Find its area. (Take  $\pi$  =3.14)



Answer: ____cm²

25. If the same kind of solid has the same mass, what is the mass of a 😂 ?



Answer: _____kg

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answer in the space provided for each question. For questions which require units, give <u>your</u> answers in the units stated.

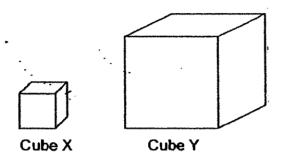
(20 marks)

26. The figures below are not drawn to scale. The side of Cube X is 2 cm.

The side of Cube Y is 4 times the side of Cube X.

Find the ratio of the volume of Cube X to the volume of Cube Y.

(Give your answer in its simplest form.)



10 mm	, Mary ph	
Answer:	•	

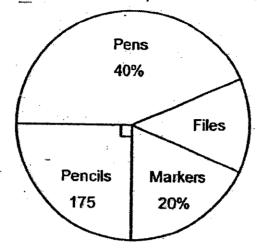
27. The rates of charges for taxi fare are as follows:

Distance	Coșt
First 1km or less	\$2.40
Every additional 200m or part thereof	<b>\$0</b> .10

How much will a passenger have to pay for a journey of 7.35 km?

*			
Answer:	\$		

The pie chart below shows the sales in a stationery shop on a certain day. Use the pie chart to answer questions 28 and 29.



28. How many files were sold?

•		-	<del></del>
P	\nsv	ver.	

29. How many per cent fewer files than pencils were sold?

Answer:	%

30. A lift can travel from the first level to the 25th level in 36 seconds. The distance between one level to the next level is 3 m. What is the speed of the lift?

25 th		
23	## # # # # # # # # # # # # # # # # # #	
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	5	
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_	<b>★</b>	
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4 St		

_	***
Answer:	m/s

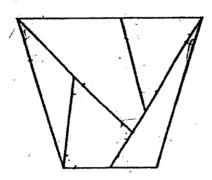
31. The number of Hanson's marbles is  $\frac{5}{7}$  of the number of Jacky's marbles. Hanson lost 21 marbles. He then found that he had half as many marbles as Jacky. Find the number of marbles Jacky had.

Answer:

32. A tank was  $\frac{1}{5}$  full of water. When another 438 ml of water was added into the tank, it became half full. How much water was in the tank at first?

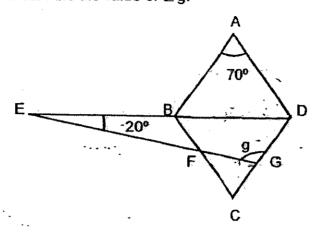
Answer: _____ m

33. In the diagram below, how many angles inside it are less than 90°?



Answer.

34. In the figure below, not drawn to scale, ABCD is a rhombus. AB = BC = CD = DA,  $\angle$  BAD = 70°,  $\angle$  BEF = 20°, EBD and EFG are straight lines. Find the value of  $\angle$  g.



Answer	0

35. A ship carries enough water for 20 persons to consume in 50 days.
After 30 days, 4 persons left the ship for an island. If each person drinks the same amount of water each day, how many days can the remaining water last?

Answer:

# Pei Hwa Presbyterian Primary School 2007 Preliminary Examination Mathematics Primary 6

		<u>Prim</u>	ary 6		
Name	*	( )		Total:	/ 50
Class	*	•	-	Date:	
For q quest The r	let B on C: (50 marks) uestions 36 to 48, s tion and write your a number of marks ava tion or part-question	nswer in the sp ailable is show	pace provid	ed for each que	ovided for each stion. he end of each (50 marks)
36.	In a shop, different o				
	Mr Tan paid \$280 fo				
٠	However, Mr Chen j				
	What was the perce	ntage discount (	given to Mr (	Chen?	***** p*
		,			**
			- ,	// ha. 1880	m., tr
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Answer:

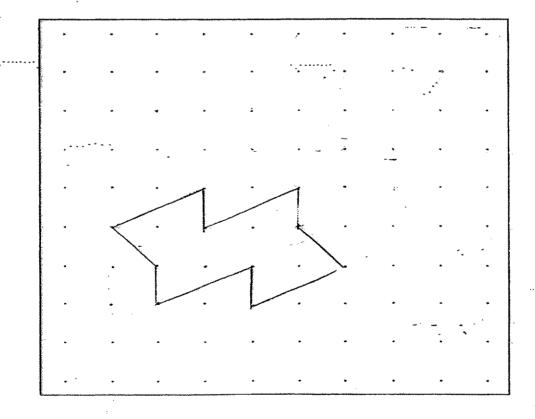
37. At the Great Singapore Sales, Mrs Teo paid \$118 for two blouses and one skirt.

Mrs Leong paid \$128 for one similar blouse and two similar skirts.

What is the cost of one blouse?

Answer: [3]

38. Extend the tessellation by drawing 4 more whit shapes in the space provided. [3]

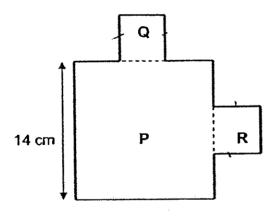


Ben travelled at an average speed of 70 km/h from Town A to B.

James started off  $\frac{1}{2}$ h later and travelled at an average speed of 80 km/h from Town A to B. At the end, both of them reached Town B at the same time. Find the distance between Town A and Town B.

Answer:	1	3	]
			4

40. Wendy had a piece of wire 80 cm long. She bent the wire to make the shape shown below. P, Q and R are squares. If squares Q and R are identical, find the area of R.



V DEMOL.	- }	3	1
Answer:	1	J	j

41. The distance between Town A and Town B was y km.

Kim and Gillian travelled from Town A to Town B at a constant speed.

They both started their journey at the same time.

When Gillian covered half the journey, Kim covered 16 km from Town A.

When Gillian completed the whole journey, how far from Town B was Kim?

Answer	 [3]	ı

42. Study the following number patterns:

$$6 \circlearrowleft 3 = 6 + 7 + 8 = 21$$

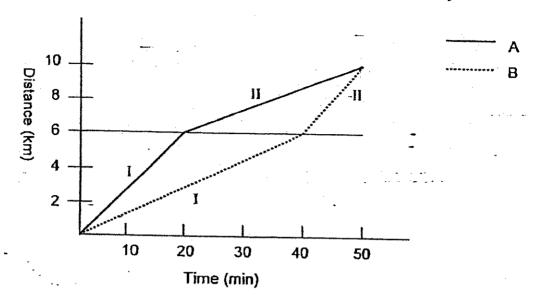
(a) Find the value of 10 ☼ 4.

Answer [2]

(b) 3 = 66. Find the missing number in the box.

Answer: ____ [2]

43. In a 10 km race, the line graph below shows the information of Cyclists A and B.



(a) Refer to the graph above and fill in the following blanks using the words "slower" or "faster" to describe the two cyclists.

Cyclist A moved _____ in part I than in part II of the journey. [1]

Cyclist B moved _____in part I than in part II of the journey. [1]

(b) Find the speed difference between part I and part II of Cyclist B's journey. — (Leave your answer in m/min.)

Answer:  $\mathfrak{P}_{2,1}$ 

- 44. (a) In the space below, draw a triangle DEF in which DE = 4 cm,
   DF = 10 cm and ∠FDE = 125°. The line DE has been drawn for you. [2]
  - (b) Measure ∠ DEF.
  - (c) Measure the height of the triangle if DE is the base of the triangle.

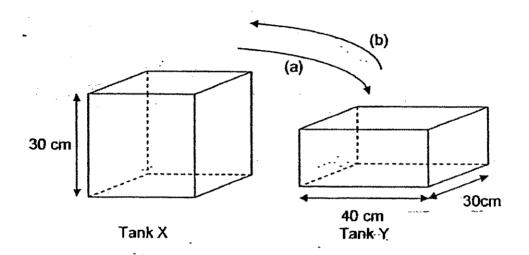
D E

Answer: (b) [1]

45. Tank X is in the shape of a cube of side 30 cm. It is filled to its brim with water. The water is then poured into Tank Y which has a rectangular base,

40 cm by 30 cm. When Tank Y is  $\frac{2}{3}$  filled, there are still 15 litres of water left in Tank X.

- (a) Find the height of the Tank Y.
- (b) When 5.7 litres of water in Tank Y is poured back into Tank X, what is the height of the water left in Tank Y?



Answer: (a) _____[3]

Tom and David, started travelling from Town A at the same time.

Collin, who was travelling in the same direction, was some distance ahead when Tom and David started on their journey. After travelling for 12 minutes at an average speed of 70 km/h, Tom overtook Collin. 3 minutes later, David, who was travelling at an average speed of 58 km/h, overtook Collin too.

What was the average speed of Collin in km/h?

Answer []5

- 47. May has some stickers. She gives  $\frac{1}{4}$  of her stickers to Lina.
  - As a result, Lina has thrice as many stickers as before. Then, Lina gives  $\frac{1}{2}$  of her stickers to Pat. Now, Pat has  $1\frac{1}{2}$  times as many stickers as before.
    - If Lina still has 129 stickers left,
    - (a) how many stickers does Lina have at first?
    - (b) how many stickers does May have at first?
    - (c) what fraction of Pat's stickers is Lina' stickers at first?

Answer: (a) _____[ 2

(b) ____[2]

(c) _____[1]

- 48. Mrs Heng sold some comic books from Monday to Sunday.
  On Saturday, she sold 20% more than the average number of comic books sold in a week. On Sunday, she sold 30% more than the average number of comic books sold in a week. She sold 18 more comic books on Sunday than on Saturday.
  - (a) How many comic books were sold from Monday to Friday?
  - (b) Each comic book was sold at \$3.60. How much money was collected from Monday to Friday?

Answer:	(a)	[	4	7
	(b)	]:	1	]

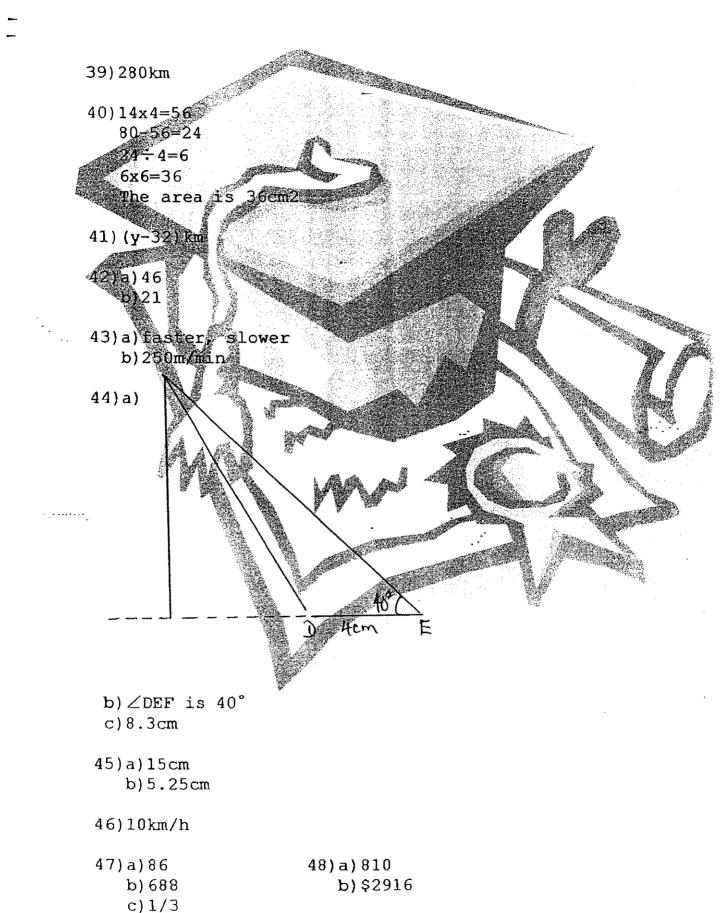
**End of Paper** 



## ANSWER SHEET

PEI HWA PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 PRELIMINARY EXAMINATION

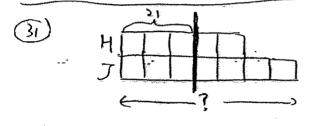
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1.4	20) 2n-23	28) 105	
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4. 4 5. 3	22) 127	30)-2m/s	
6. 2	&23 <u>) 62/5</u>	31) 49	`. 
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18. 40%			
19.		37) \$36	
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$$6.35 \text{ km} = 6350 \text{ m} = 31.75$$
  
 $6350 \text{ m} = 200 \text{ m} = 31.75$   
 $32 \times $0.10 = $3.20$   
 $$2.40 + $3.20 = $5.60$ 



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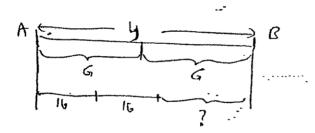
$$B+S = 4 246 -3 = 482$$

$$B+S = 4 118 - 482$$

Difference in speed = 80-70 = 10 km/h.

Distance = 31 x 80 = 280 km/

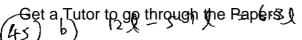
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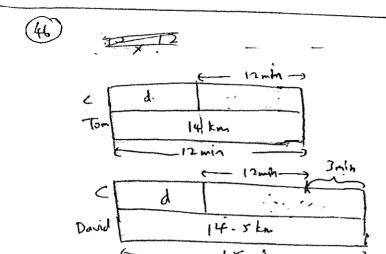


$$=(y-32)km$$

(42)

435





$$70 \times \frac{12}{60} = 14 \text{ km}$$
  
 $58 \times \frac{15}{60} = 14.5 \text{ km}$   
 $14.5 - 14 = \frac{1}{2} \text{ km}$ 

(47) L 129 to Pat

- a) 3u = 129  $1u = \frac{129}{3} = 43$ 2u = 2x 43 = 86
- b)  $4u = 4 \times 43 = 172$   $172 \times 4 = 638$
- $\begin{array}{c}
  (129 \times 2) = 5 \times 3 \\
  129 \times 2 = 5 \times 3 \\
  86 \times 129 = 1 \times 3 \\
  129 \times 3 \times 3 \times 3 \times 3
  \end{array}$

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Your



# **RAFFLES GIRLS' PRIMARY SCHOOL**

	-SEMESTRAL ASSE 2007	SSMENT 1	-	Score Out of 100 marks		•
Name :		) Class:	P6	Highest score	Class	Level
9 May 200	7 MATHEMATICS	Att: 2 h 1	5 min	score Parent's Signature	• •	
				<u> </u>		

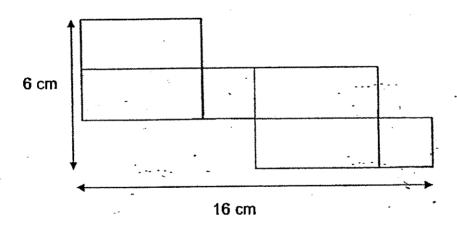
### SECTION A (20 marks)

Question 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided.

- In 216 857, what does the digit 1 stand for? (1)10 ones
  - (2)10 tens
  - (3) 10 hundreds
- (4) 10 thousands
- 2. If  $\frac{2}{3}$  of a number is 18; what is 4 times the number?
  - 36 (1)
  - **(2)** 72
  - (3)108
  - (4) 144

)

- 3. Jack mixed half a litre of orange syrup with 3 litres of water to make an orange drink. How many millilitres of orange drink did he make?
  - (1) 3 000 ml
  - (2) 3 200 ml
  - (3) 3 500 ml
  - (4) 4 000 ml ==
- 4. Find the value of  $\frac{4n-6}{6}$  when n=2.
  - (1)  $\frac{1}{6}$
  - (2)  $\frac{1}{3}$
  - (3) 7
  - $(4) \cdot 8$
- 5. The figure shows the net of a cuboid. The cuboid has a square base. Find the volume of the cuboid.



- (1) 12 cm³
- (2) 24 cm³
- (3)  $52 \text{ cm}^3$
- (4)  $72 \text{ cm}^3$

6. 
$$1\frac{1}{3} - \frac{3}{15} = 1$$
  $\frac{2}{15}$ 

What is the arithmetic operation in the box?

- (1) -
- (2) +
- $(3) \times$
- (4) ÷
- 7. Express  $7\frac{3}{5}$  as a decimal.
  - (1) 7.03
  - (2) 7.06
  - (3) 7.30
  - (4) 7.60
- 8. Mrs Tan bought y pens at 70 cents each. She paid the shopkeeper \$5. How much change did she receive?
  - (1) \$ (70y-5)
  - (2) (0.70y-5)
  - (3) \$(5-0.70y)
  - (4) \$(5-70y)
- 9. If the clock face is showing the time 1.45 p.m., what would be the time when the minute hand makes a 270° tum?
  - (1) 2.00 p.m.
  - (2) 2.15 p.m.
  - (3) 2.30 p.m.
  - (4) 3.00 p.m.

10.	There are 75 girls and 60 boys in a camp. How man	y percent more
	girls than boys are there?	•

- (1) 20 %
- (2) 25 %
- (3) 44.5 %
- (4) 55.5 %

11. Given that  $\chi$  is  $\frac{3}{5}$  of y and y is  $\frac{5}{2}$  of z. What fraction of  $\chi$  is z?

- (1)  $\frac{2}{3}$
- (2)  $\frac{2}{5}$
- (3)  $-\frac{3}{2}$
- (4)  $\frac{5}{3}$

12. Which number is a common factor of 30 and 45?

- (1) 6
- (2) 15
- (3) 30
- (4) 90

13. 30 + 10 hundredths + 0.016 = ____

- (1) 30.026
- (2) 30.116
- (3) 31.016
- (4) 40.016

(

(

14.  $\frac{2}{3}$  of X is equal to  $\frac{1}{5}$  of Y. Find the value of 80% of Y if X is 930.

- **(1)** 744
- (2) 1 860  $_$
- (3) 2 480
- (4) 3 100
- 15. A grand prix racer completes 144 laps on a  $\frac{3}{4}$  km track in  $\frac{3}{4}$  hour. What is his average driving speed?
  - (1) 81 km/h
  - (2) 108 km/h
  - (3) 144 km/h
  - (4) 192 km/h

## SECTION B (30 marks)

Question 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16.	<ul> <li>Study the number pattern below and fill in the mis</li> </ul>	ssing numbers.
-----	------------------------------------------------------------------------	----------------

52 297,

52 212,

.

52 042,

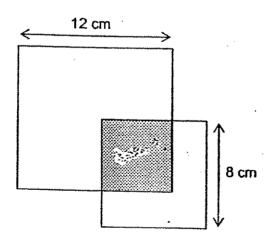
51 957

Ans:_____

17. Find the value of 
$$10 + 20 \div (8 - 3 \times 2)$$
.

Ans: _____

The diagram below shows two squares with lengths 12 cm and 8-cm respectively. If the shaded area is 36 cm², what fraction of the figure is unshaded?



Ans:

No. Susan spent  $\frac{1}{5}$  of her money on a bag and  $\frac{1}{2}$  of the remainder on a shirt. What fraction of her money did she spend on the two items?

Ans:

20. Express 0.024 as a fraction in its simplest form.

Ans:_____

21. Express 10.007 cm in metres and centimetres.

Ans: ____ m_ · __ cm

22. 
$$3\frac{3}{4} = 2\frac{1}{4} + \left[ \frac{1}{4} \right] \times \frac{1}{4}$$

What is the missing number in the box?

Anst ____

23. A train travels 4y km in 2 hours. How far will it travel in 30 min?

Ans:____km

24. An ant can crawl 36 metres in 1 hour. What is its speed in cm/s?

Ans: _____ cm/s

25. The clock below shows the time Ann started driving to Malacca. She reached Malacca at 2.15 p.m. How long was her journey? Express your answer in hours and minutes.



Ans: ____h__min

**		
11/200	·	l
Name	•	١

Class: P6___

Question 26 to 35 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form. Marks will be awarded for relevant working.

}

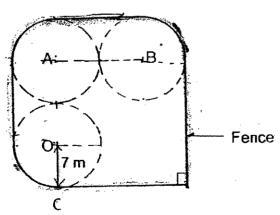
26. Two years ago, Jane's starting pay was \$2 000 per month. Last year, there was a 10% reduction in her pay. In March this year, her pay was raised by 10%. She received an additional,\$50 per month. What was her salary in April this year?

Ans: \$	
---------	--

27. Calculate the product of 3 045 and 60. Round off your answer to the nearest hundred thousands.

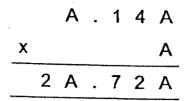
Ans:	
THIS.	,

28. The figure below shows the fence around a garden. A, B and O are the centres of 3 identical circles. OC is 7 m. Find the perimeter of the fence. (Take  $\pi = \frac{22}{7}$ )



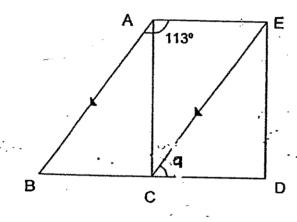
Ans:	n	,
WI12.	13	ł

29. Find the value of A.



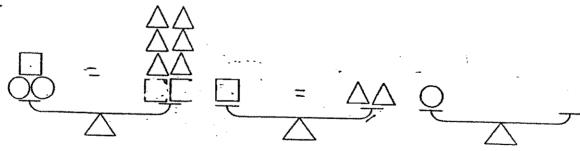
Ans:

30. In the diagram shown below, ABCE is a parallelogram and ACDE is a rectangle. Find ∠q.



Ans:

31.



The weight of is equal to ______

Ans:

32. Simplify the following equation.

Ans:

33. Jason cycled  $1\frac{1}{4}$  hours at an average speed of 16km/h and walked for 30 min at an average speed of 8km/h. Find the total distance travelled.

Ans: km

either Ans:

all pupils like to play baskettall ortennis. or both.

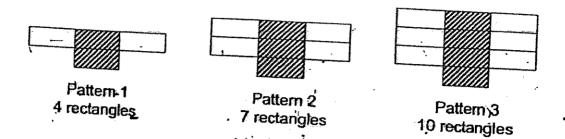
35. Of a group of 200 pupils, 160 pupils like to play basketball and 140 pupils like to play tennis. What percentage of pupils likes to play basketball only?

Ans:______%

Nam∈	<b>*</b>			(	)	Cla	ass: P6	
<u>SEC</u>	TION C	<u>(50 marks)</u>						
each provi must work	question ded. All be expring. The	36 to 48, show to and write you diagrams are need in the sinumber of marks or part-question	our answ not drawn implest fo ks availabl	er with s to scale. rm. Marks	uitable Answers will be	units in to in the sin fraction in fraction in the single	the spa ons or r for relev	ace rati vai
36.	A box co	ntains red, yellov	v and gree	n marbles	Half of th	e marbles :	are red a	
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	If there a	re 210 more gree	en marbles	s than yellov	w marble	s, how man	y marbie	es
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37.	was 3 : {	o of the number of the of women to the	left the firm	due to retr	enchmer	nt, the ratio	of the	

Ans:____[3]

38. The patterns below consist of shaded and unshaded rectangles. Study the patterns carefully before answering the following questions.



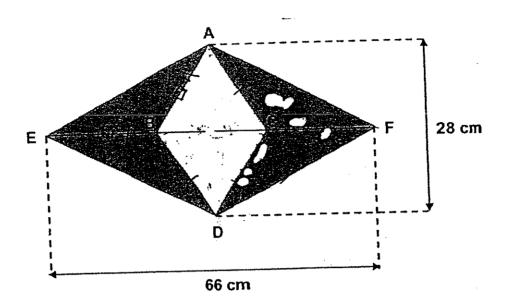
- (a) What is the total number of rectangles in Pattern 10?
- (b) If the pattern has 127 rectangles, how many unshaded rectangles are, there?

Ans: (	(a)	[1	<b>m]</b>
. (	b)	[2	mì

39. Shawn bought 8 pens and 5 books for \$172. Peter bought 3 pens and 2 books for \$66. What was the cost of each book?

Ans:_____[3]

T40. ABC and BCD are two identical equilateral triangles. Given that AB = BE and DC = CF, find the total shaded area.



Ans: _____[3]

41. For every \$20 Jason saved, his brother saved \$35. If his brother had saved \$90 more than Jason, find out how much Jason had saved.

Ans:_____[3]

- 42. Terry and Alex have some marbles each. When Terry loses  $\frac{3}{11}$  of his marbles to Alex, the ratio of Terry's marbles to Alex's marbles becomes 4:3.
  - (a) What is the ratio of Terry's marbles to Alex's marbles at first?
  - (b) Terry plays another game with Alex and loses more marbles to Alex, and the ratio of Terry's marbles to Alex's marbles becomes 2:5. If Alex has 96 more marbles than Terry after the game, how many marbles does Terry lose to Alex in this game?

Ans: (a) _____[1 m]

*******			
-Name :	(	)	Class: P6

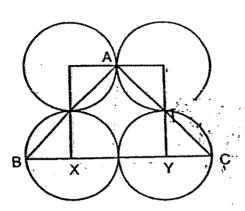
- 43. Ann and Ben were given some money each. If Ann spent \$25 each week and Ben spent \$75 each week, Ann would still have \$1 350 left when Ben had spent all his money. If Ann spent \$75 each week and Ben spent \$25 each week, Ann would still have \$150 left when Ben had spent all his money.
  - (a) How much money did Ann receive?
  - (b) How much money did Ben receive?

Ans: (a) [3 m]

44. A container weighs 0.466 kg when it is  $\frac{2}{3}$  filled with coffee powder. It weighs 0.406 kg when  $\frac{1}{4}$  of the coffee powder is removed. What is the weight of the container when it is empty?

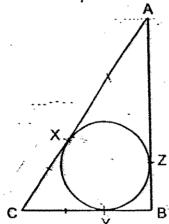
Ans: ______[4]

The figure below is made up 4 identical circles and a square of side 45. (a)  $28\pi$  cm. X and Y are centres of the circles. Find the area of triangle ABC. Leave your answer in terms of  $\pi$ .



The perimeter of the triangle ABC is 30 cm. Given AC = 13 cm, AB = 12 cm, CX = CY and AX = AZ, find the radius of the circle.

 $(\text{Take } \pi = \frac{22}{7})$ 



Ans: (a)_ [3 m]

[2 m]

46. When a train departed from Somerset Station, 24% of the passengers were children while \$75\% of the adults were men. There were \$25\% more girls than boys, and 114 more men than women. At Orchard Station, 9 women and 3 girls left the train. How many female passengers were on board the train when it departed from Orchard Station?

Ans:_____[5]

- 47. Anna, Ben, Cindy and Dan received a sum of money. Anna received  $\frac{3}{8}$  of the total amount of money received by Ben, Cindy and Dan. Ben received  $\frac{1}{3}$  of the total amount of money received by Cindy and Dan. Cindy received 3 times as much as Dan. If Anna and Ben received \$400,
  - (a) find the sum of money received by Anna, Ben, Cindy and Dan.
  - (b) how many per cent more did Cindy receive than Ben?

Ans: (a):	[3	n	)
-----------	----	---	---

48. It takes courier A 10 hours to deliver a parcel from Town X to Town Y.

Courier B takes 12 hours to deliver the parcel along the same route. If the speed of courier A is 9 km/h faster than courier B, find the speed of courier A.

Ans:			[5]

-End of Paper-Please check your work carefully @

Setters: Mdm Tng Jiew Kim

Mdm Wirda Sukor Mrs Wong Ser Huay Ms Wai Sook Har Ms Yan Ying Ling



RAFFLES PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

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2.3		32)3
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4.2	A 1900 A	34) 12
5.2		35)30%
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<b>12</b> .	72	32u→82y=====
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14.	3	38)(a)(31)
15.		b) 849
16.	52127	
17.	20-	39) \$12
18.	34743	
19.	3/5	40) 66 = 3=22
20.	3/125	28÷2≅14 ×
21.	100M 7cm	⅓ x22x14=154
22.	6	154×4=61 6cm2 3 3
23.	1y km	
24.	1cm/s	41) 35-20=15
25.	6h 25min	90÷15=6
	\$2030	6x20=\$120
27.	-	
	103m	(42) a) 11.3
29.	5	b)64 marbles
30.	67°	
50.	~ .	

```
43) 9u-1u=8u→1350-150
   =1200
   1u→150
  a) 150±1350=$1500
  b) 150x3=$450
 4) 1u -> 0.466-0.5406
   =0:06
    0.06x3≢0.4€8
     0.406-0.18=0.226kg
 5)a)7847 cm2
   b)30cm-13cm-12cm =5cm
      2u->5cm-1cm-4cm
      1u 34cm 2=2cm
46)85
47) a) (6+16) - (9+3) = 10
                  10=$40
    b) 4u \rightarrow 4x 840 = $160 (B)
      9u \rightarrow 9x = 0 = $360 (C)
      360-160-200
      200/160x100%=125%
48)2u→9km
    12u \rightarrow 6x9km
    =54 \, km
```

--end---

RAFFLES GIRLS' PRIMARY SCH	OOL"	Math Cl	ass:	) 
PRELIMINARY EXAMINATION 2007  Name: ( ) Class	!  : P6	Your Score Out of 100 marks		
			Class	Level
21 August 2007 MATHEMATICS Att. 21	 15 min	Highest score		
Z i August 2007 IIIA i i i i i i i i i i i i i i i i i	1 10 1111111	Average score		
SECTION A (20 marks)		Parent's Signature	-	

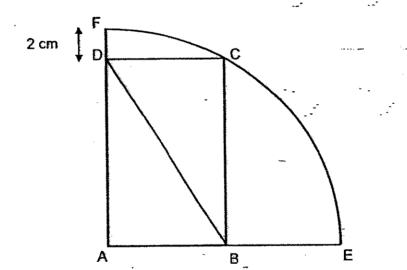
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided.

1.	In 264	4 983, the digit 6 is in the	_ place.
	•	hundreds	,,***, * *
	(2)	thousands	
	(3)	ten thousands	- A 2 (F) 2 (400)
•	· ( <del>Å</del> )··l	hundred thousands	-
2.	What	is the value of the digit 5 in 123.405?	
	(1)	5	
	(2)	0.5	
	(3)		<del>-</del>
	(4)	0.005	
3.	7 (9	mt expressed in millilitres is	<del>_</del> -
	(1)	790 ml	
	(2)	709 m²	
	(3)	7009 m€	
	(4)	7090 m²	

Page 1 of 24

- 4. A number when rounded off to the nearest thousand is 76 000.
  What is this number?
  - (1) 75 495
  - (2) 76,480
  - (3) 76 505
  - (4) 77 001
- 5. Express  $\frac{16}{20}$  as a decimal.
  - (1) 0.8
  - (2) 0.08
  - (3) 0.008
  - (4) 0.0008
- 6. Express 25 seconds as a fraction of 2 minutes.
  - $(1) \frac{1}{4}$
  - (2)  $\frac{1}{8}$
  - (3)  $\frac{2}{25}$
  - (4)  $\frac{5}{24}$
- 7. A movie started at 1.35 p.m. and ended at 3.20 p.m. on the same day. How long was the movie?
  - (1) 1 h 15 min
  - (2) 1 h 45 min
  - (3) 2 h 25 min
  - (4) 2 h 45 min

- 8. Which of the following is <u>not</u> equal to  $\frac{2}{6}$ ?
  - (1)  $\frac{1}{6} \times 2$
  - (2)  $\frac{1}{3} + \frac{1}{3}$
  - (3)  $\frac{8}{12} \div 2$
  - (4)  $\frac{4}{9} \frac{1}{9}$
  - The figure below shows a quadrant and a rectangle ABCD.
     Point C touches the circumference of the quadrant, and AE = 2y cm.
     The length of BD is _____ cm.



- (1) 2y
- (2) 2y 2
- (3) 2y + 2
- (4) 4y

10.  $2007 \times 99 = 7 \times 99 - 99$ 

What is the missing number in the box?

- (1) 2005
- (2) 2006
- (3) 2007
- (4) 2008
- 11. The pie chart below shows the places of interest visited by 1836 pupils this year.

  If the same number of pupils visited Sentosa, Night Safari and Bird Park, how many pupils went to Sentosa this year?



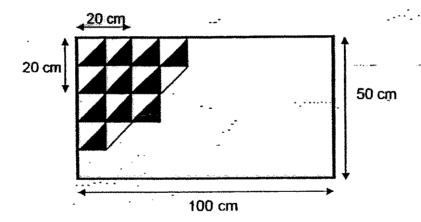
- (1) 306
- (2) 459
- (3) 612
- (4) 918

12. It takes 5 men to paint a house in 6 days.

At this rate, how many-days will 15 men takes to paint the similar house?

- (1) 1
- (2) 2
- (3) 12
- (4) 18
- 13. Mrs Wang wants to cover part of a rectangular wall, 100 cm long by 50 cm wide using identical black and white triangular tiles as shown below.

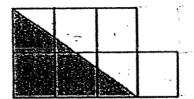
How many more black triangular tiles must she use to complete the tiling pattern?



- (1) 38
- (2) 39
- (3) 76
- (4) 78

14. The figure is made up of squares of equal size.

How many more unshaded squares should be added so that 25% of the new figure is shaded?

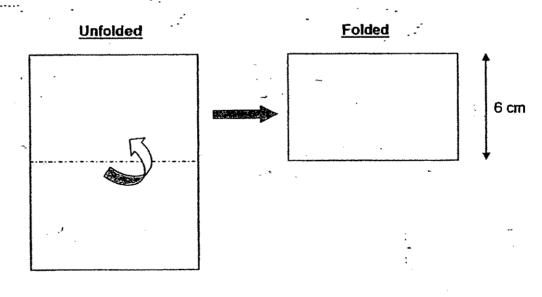


- (1)
- -(2) 5
- (3) 3
- (4) 7.
- 15. A piece of paper is folded into half as shown below.

The breadth of the folded paper is 6 cm.

The perimeter of the folded paper is 30 cm.

Find the perimeter of the original unfolded paper.



- (1) 42 cm
- (2) 48 cm
- (3) 54 cm
- (4) 60 cm

#### **END OF SECTION A**

#### SECTION B (30 marks)

Question 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Which of the following numbers is the smallest?

1 009 001

1 901 000

1 090 100

1 000 109

Ans:

17. Evaluate  $\frac{2}{3} \div 6$ 

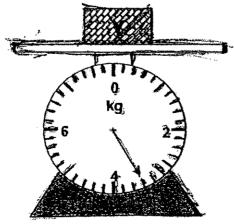
Ans:

18. A square has an area of 0.04 m².

If the square is cut into 8 equal triangles, what is the area of each triangle?

Ans: _____m²

19. What is the weight of block Y in grams?

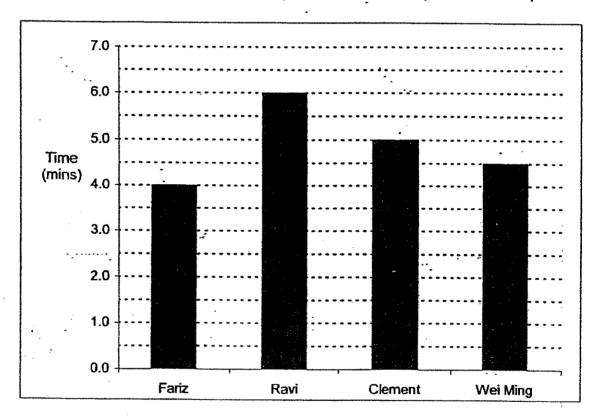


Ans:_____g

20. A solid metal block 2 cm by 4 cm by 8 cm is melted and moulded into a metal cube. What is the length of one side of the cube?

Ans:____crr

21. The graph below shows the time taken by 4 swimmers to complete a 200-m lap.



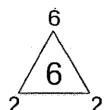
Who is the fastest swimmer?

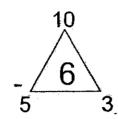
Ans: _____

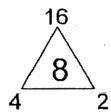
22. There are 50 girls and 40 boys at a party.
How many percent more girls than boys are there at the party?

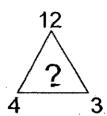
Ans: %

23. Study the pattern below and fill in the missing number in the last triangle.





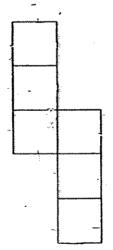




Ans:

24. The figure shows the net of a 2-cm cube.

Find the perimeter of the net.



Ans: - cm

25. Two friends paid \$144 each for renting a car for 10 days.

What was the cost of renting the car per day?

Ans: \$____

····	
6.	Mary is 2p years old.
	Tom is 4 years older than her.
	What is their total age? (Give your answer in terms of p)
	· · · · · · · · · · · · · · · · · · ·
	•
	Ans: yéars o
27.	There are 10 boys and twice as many girls in a class.
	If they share 600 sweets equally, how many sweets does each child get?
-	The second secon
٠	
	Ans:
28.	
	Draw and label the parallelogram ABCD where ∠ABC is 70° and AB is 5 cm.
	· · · · · · · · · · · · · · · · · · ·

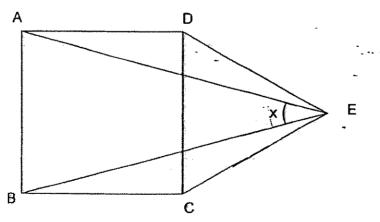
29. At 8 a.m., a truck left Town X for Town Y which was 366 km away. Find the average speed of the truck if it reached Town Y at 2 p.m..

Ans: _____km/r

30. Find the value of  $480 - (112 + 8) \div 2 \times 3$ 

Ans: ___

31. In the figure below, ABCD is a square and EDC is an equilateral triangle. Find  $\angle x$ .



Ans:

32. A dictionary costs \$40.

As5% discount is given in 8 of more dictionaries; are purchased.

How much does Mrs Soh need to pay the cashier if she wants to purchase 10 such dictionaries?

Ans: \$_____

33. Susan wanted to buy 5 pens but she needed \$2.60 more.

She decided to buy 2 pens instead and had \$4.15 left.

Find the cost of a pen.

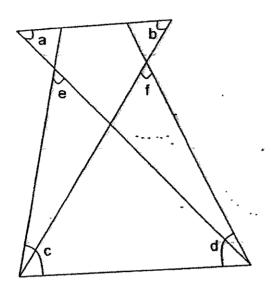
Ans: \$____

- 34. Study the following number pattern.
  - what is the value of ??

0.15, 0.3, 
$$\frac{\odot}{20}$$
, 0.6, 0.75,  $\frac{\odot}{10}$ 

Ans: _____

35. In the figure below, find the sum of the 6 marked angles.



Ans:

**END OF SECTION B** 

Name:	(	<b>****</b>	)	Math Class:	
Class: P6				Date:	
SECTION C (50 marks)				•	

For question 36 to 48, show your working clearly in the space provided below each question and write your answer with suitable units in the spaces provided. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form. Marks will be awarded for relevant working. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

36. The average mass of 5 boys is 5y kg.

The total mass of another 2 boys is 67 kg.

What is the average mass of the 7 children?

(Express your answer in terms of y)

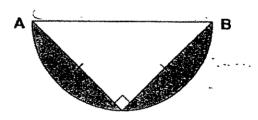
Алs:	[3]
------	-----

37. The figure below is made up of a triangle and a semicircle.

The length of AB is 28 cm.

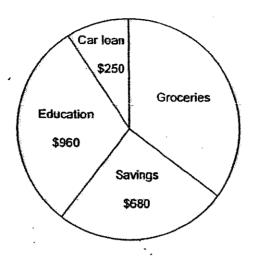
Find the area of the shaded region.

(Take  $\pi$  as  $\frac{22}{7}$ )



Ans:		[3]
	***************************************	4 - 4

38. The pie chart below shows the expenditure of Mrs Wong's monthly salary.



If Mrs Wong spent  $\frac{1}{3}$  of her monthly salary on groceries, how much was her monthly salary?

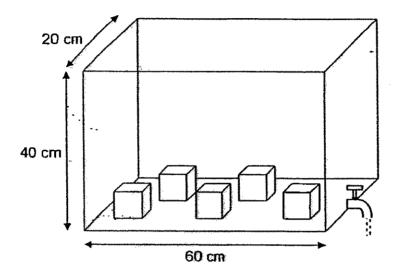
Ans: (3)

- 39. James used 12 litres of syrup to make fruit punch.For every litre of syrup, he added 3.5 litres of water.The fruit punch was then poured into cups of 200 ml for sale.
  - (a) How many cups of fruit punch did he get?
  - (b) If each cup of fruit punch was sold for \$0.50, how much money would James collect?

Ansy (a)		[3]
----------	--	-----

40. A rectangular tank with 5 identical solid metal cubes was filled to the brim with water.

Water was drained out of the tank through a tap at a rate of 2 litres per minute. It took 18 minutes for the water level to drop to the height of the metal cubes. Find the volume of the 5 metal cubes.



[4]
{

Page 17 of 24

41. Jane started driving at 9.30 a.m. from Town A to Town B.

At 11.30 a.m., Jane had covered only  $\frac{2}{5}$  of the distance.

She had to cover another 144 km before she reached Town B.

- (a) What was the distance between Town A and Town B?
- (b) If Jane were to travel at an average speed of 72 km/h after 11.30 a.m., at what time would she reach Town B? (Express your answer using the 24-hour clock)

Ans: (a) [2]

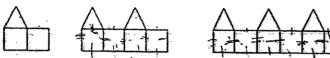
b) [2]

Figure 1

Figure 4

42. The figures below are made up of squares and triangles formed by lines.

Study the table below carefully and then answer the questions that follow.



日本托拉(1414)

Figure 3

 Figure
 1
 2
 3
 4
 5
 20

 Number of Lines
 9
 17
 25
 33
 (a)
 (b)

(a) How many lines are there in Figure 5?

Figure 2

- (b) How many lines are there in Figure-20?
- (c) How many lines would there be in the figure that has 150 squares?

Ans: (a) _____[1]

b) ____[1]

(c) ____[3]

43. There are some red and green beads in a container.
If 75 more green beads are put into the container, the percentage of red beads will decrease from 30% to 20%.

Ans: _____[3]

- 44. A group of pupils sat for two tests, test A and test B.
   The number of pupils who failed test A was ¹/₇ of those who passed test A.
   Given that there were 20 pupils who failed test A,
  - (a) how many pupils passed test A?

How many red beads are in the container?

(b) The number of pupils who failed test B was  $\frac{1}{4}$  of those who failed test A. What fraction of the pupils passed test B?

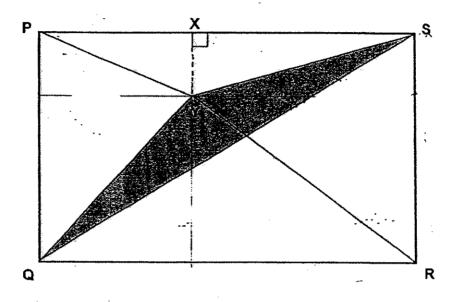
Ans: (a) ______[1]

(b) _____[2]

45. The figure below shows a rectangle PQRS.

The lines are extended from point P, Q, R and S and they meet at point Y. The length of QR is 20 cm and the length of XY is 4 cm.

Given that QS is a straight line, the area of  $\Delta$ PQY is 72 cm² and the area of  $\Delta$ SRY is 84 cm², find the shaded area of  $\Delta$ QSY.



Ans:	<b>[4</b> ]
	 <b>,</b> ,

46. At first, the ratio of the number of marbles received by John and Peter was 4 : 7. The ratio of the number of marbles received by Peter and Sam was 9 : 5.

Then, John gave  $\frac{1}{12}$  of his marbles to Sam, and Peter gave  $\frac{1}{9}$  of his marbles to Sam.

As a result, Sam had 135 marbles in the end.

- (a) Find the ratio of the number of John's marbles to the number of Sam's marbles at first.
- (b) Find the total number of marbles received by the 3 boys.

Ans: (a) _____[2]

(b) ____[3]

Melissa spent  $\frac{3}{8}$  of her money on 3 pencils and 8 pens, and  $\frac{4}{5}$  of the remainder on 15 markers.

Each pencil cost  $\frac{2}{3}$  as much as a pen.

Each marker cost \$0.20 more than a pencil.

What is the cost of a pen?

Ans: _____[4]

48. Valley Department Store sold a dress for \$585.

This was 17% more than the price of a similar dress in Wiki Department Store. During a sale, both stores offered same percentage discount on the dress.

Christine bought the dress in Wiki Department Store and found that she paid \$68 less than the discounted price in Valley Department Store.

- (a) Find the price of the dress in Wiki Department Store before the sale.
- (b) What is the percentage discount given during the sale?

Ans:	(a)			[2
	/b)	٠	-	13

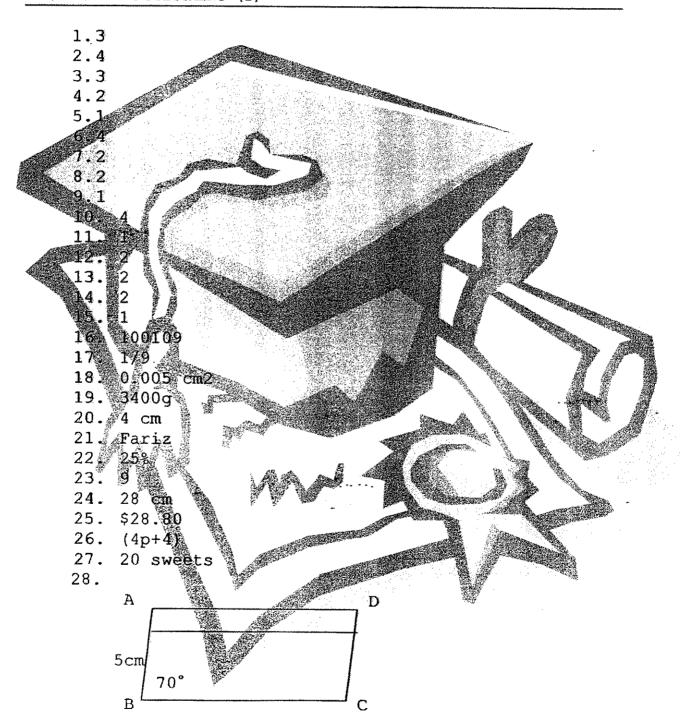
-End of Paper-Please check your work carefully ©

Setters: Wai Sook Har, Tng Jiew Kim, Tan Kim Kian, Marie Loe and Lee Suan Khim

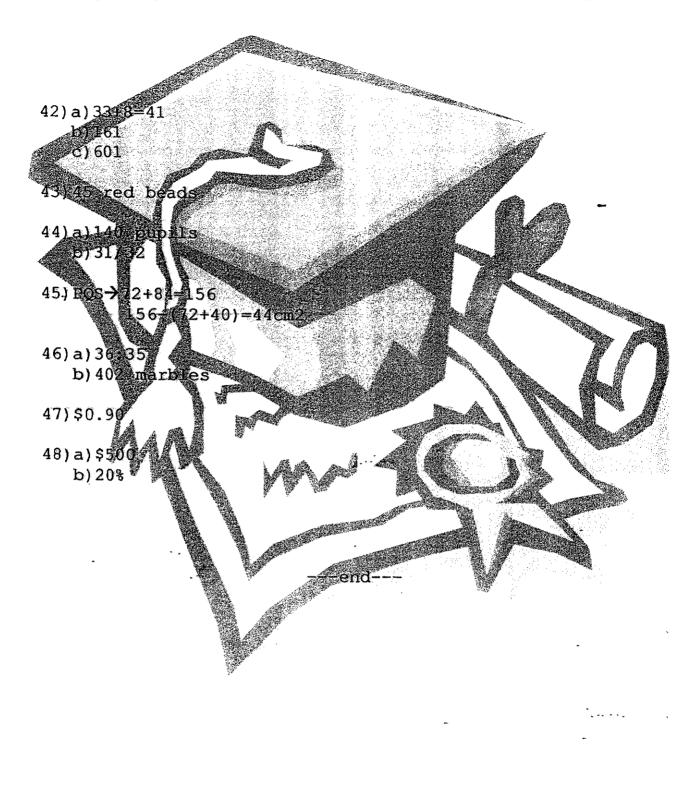
Page 24 of 24



RAFFLES PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (2)



```
29)61 km/h
30) 300
32)$380
 (a) $2.25
35) 360
    5x5y = 25
     5 67
37)
         x14x14x2247=308
      308-196=112cm2
38)
                 680+250
      3/3 -> 9 45 x3=
                    2835
39)a)42 \ +12 =54
       54000 ÷ 200=270
    b) 270 \times 0.5 = $135
40) vol of tank 20 \times 40 \times 60 = 48000
    Amt of water
    drained out→1 min→3 v
                     18 min→36 ι
   -48 \cdot -36 \cdot =12 \cdot (amt of water at metal)
    Base area\rightarrow20x60=1200
    1200 =10 cm (height)
    1200
    Vol of 1 \rightarrow 10 \times 10 \times 10 = 1000
    Vol of 5 \rightarrow 1000 \times 5 = 5000 \text{ cm}^3
 41)a)240km
    b) 1330
```





# Rosyth School — First Continual Assessment 2007 Mathematics Primary 6

Name:	Total 100
Class: Pr 6	Register No. 38 Duration: 2h 15 min
Date: 27 th February 2007	Parent's Signature:

### **BOOKLET A**

#### Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 2 booklets, Booklet A and Booklet B.
- For questions 1 to 15 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).

5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Booklet A	20	-
Section A		
Booklet B	30	
Section B		
Booklet B	50	
Section C	T T T T T T T T T T T T T T T T T T T	
Total	100	

^{*} This paper consists of _25_ pages altogether.

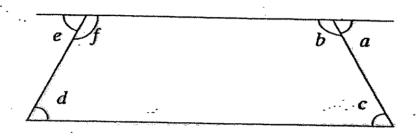
This paper is not to be reproduced in part or whole without the permission of the Principal.

Section A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. If a = 4, what is the value of 2a + 5?
  - (1) 9
  - (2) 11
  - (3) 13
  - (4) 40
- 2. Which of the following fractions has 14 fifths?
  - (1) <u>5</u>
  - (2)  $\frac{4}{5}$
  - (3)  $2\frac{4}{5}$
  - (4) 14<del>1</del>5
- 3. Find 40 min as a fraction of 2 hrs.
  - (1)  $\frac{1}{5}$
  - (2)  $\frac{1}{4}$
  - (3)  $\frac{1}{3}$
  - (4)  $\frac{2}{5}$

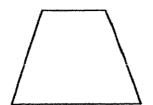
- 4. The breadth of a rectangle is x cm. Its length is twice its breadth. Find its perimeter.
  - (1) 3x cm
  - (2) (2x + 1) cm
  - (3) 6x cm
  - (4) (4x + 2) cm
  - 5. In the figure below,  $\angle a + \angle b = \angle d + \underline{\hspace{1cm}}$



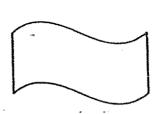
- (1) ∠c
- **(2)** ∠d
- (3) Ze
- (4) ∠f
- 6. The average of three numbers is 30. If the total of two of the numbers is 47, what is the value of the third number?
  - (1) 17
  - (2) 43
  - (3) 77
  - (4) 90

7. Which of the shapes below cannot be tessellated?





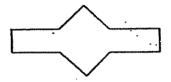
(2)



(3)



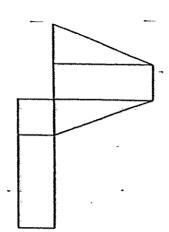
(4)



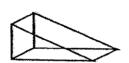
8. Brenda was born in November 1990. Her sister was born in June 2001. What is the difference in their age?

- (1) 9 yrs 6 mths
- (2) 9 yrs 7 mths
- (3) 10 yrs 6 mths
- (4) 11 yrs 7 mths

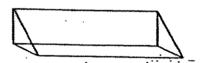
# __9. Look at the net below. Which of the following solids can the net form?



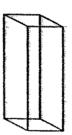
(1)



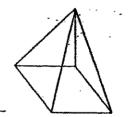
(2)



(3)

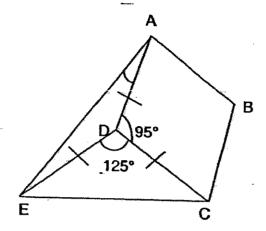


(4)



- 10. A company has 900 workers. There are 200 more foreign workers than local workers. Find the ratio of the number of foreign workers to the number of local workers in the company. (Leave your answer in its simplest form)
  - (1) 7:5
  - (2) 9:7
  - (3) 11:7
  - (4) 13:9
- 11. Shu Fen has some pencils. If she gives 3 pencils each to each classmate, she will have 20 pencils left. If she gives 4 pencils each to each classmate, it would be just nice. How many pencils does she have?
  - (1) 40
  - (2) 80
  - (3) 120
  - (4) ...160.
- Azizul mixed 4 cups of water to one cup of erange syrup to make a drink for his friends. How many cups of orange syrup did he use if he used 52 cups of water?
  - (1) 12
  - (2) 13
  - (3) 14
  - (4) 16

13. In the figure below not drawn to scale, ABCD is a parallelogram and ADE and CDE are isosceles triangles. ∠ADC is 95° and ∠CDE is 125°. Find ∠DAE.



- (1) 20°
- (2) 40°
- (3) 70°
- (4) 140° -
- 14. The ratio of Victoria's weekly allowance to Yuan Ming's weekly allowance is 8:5. After Victoria spent half of her allowance on a wallet and Yuan Ming spent \$24 on a pair of shees, they found out that they had the same amount of money left. How much more weekly allowance did Victoria get than Yuan Ming?
  - (1) \$24
  - (2) \$72
  - (3) \$120
  - (4) \$192

- Kishen spent  $\frac{5}{8}$  of his salary on a refrigerator and  $\frac{9000}{6}$  of the remainder to his mother. If he had \$600 left, how much did he spend on the refrigerator?
  - (1) \$375
  - (2) \$600
  - (3) \$1 200
  - (4) \$1 920



# Rosyth School First Continual Assessment 2007 Mathematics Primary 6

Name:			
Class: Pr-6 -	And the second s	Register	No.
Date: 27 th February 2007	Parent's Signature	·	
		•	

# **BOOKLET B**

## Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 2 sections, Section B and C.
- 4. For questions 26 to 48, show all relevant working in the spaces provided.
- 5. ANSWER ALL THE QUESTIONS.

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•		-2-	_	
-	PC'	136)	п	$\mathbf{r}$

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16.  $40 \times 10 = 20 \times m$ . Find the value of m.

Ans: _____(1m)

17. Complete the number pattern below:

388, _____, 570, 661, 752

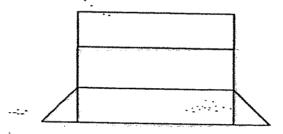
Ans: _____(1m)

18. Find the value of  $8-9 \div 3 + 4 \times 8$ .

19. Find the value of  $803 \times 95$ .

Ans: _____(1m)

20. The figure shown below is a net of a solid. Name the solid.



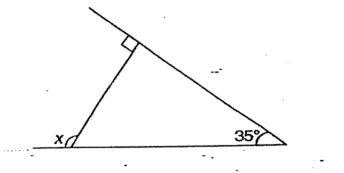
Ans: _____(1m)

21. The sides of a triangle are in the ratio of 3:4:5. What fraction of the perimeter is the length of the shortest side? (Leave your answer in its simplest form)

22. The ratio of the number of boys to the number of girls in a class is 5:8. Express the ratio of the number of girls to the total number of students in the class.

Ans: ______(1m)

23. The diagram below is not drawn to scale. Find the value of  $\angle x$ .



Ans: _______ (1m)

24.  $\frac{5}{7}$  of Shing Yi's fish are guppies.  $\frac{1}{2}$  of these guppies are male. What fraction of his fish are male guppies?

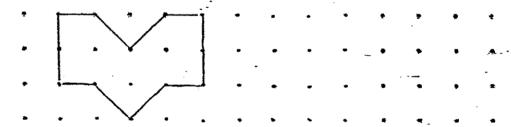
25. Wen Yi has 4 times as many stickers as Azzimah. If Wen Yi's stickers are doubled, and Azzimah's stickers reduced by half, what is the ratio of Wen Yi's stickers to Azzimah's stickers? (Give your answer in its simplest form)

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require upits, give your answers in the units stated. (20 marks)

26. Penny and Lianne had 3 dozen stalks of roses each. Penny sold ¹/₄ of her roses while Lianne sold 24 roses. What was the ratio of roses left to the number of roses sold by both girls? (Leave your answer in its simplest form)

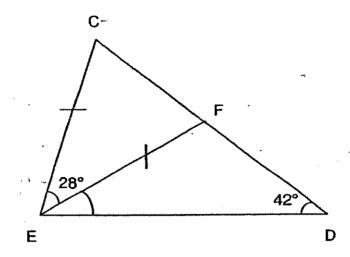
· . Ans: ______(2m)

27. Make use of the given shape and make a tessellation. Draw at least 4 more of the given shape. (2m)



28.	Tim has k books more books tha children have?	s. Amanda has an Amanda. Wh	4 times as many lat is the average	books as Tim and L number of books th	uis has 8 e 3
					<b>»</b> -
		•			
			·***	•	
			•••		-
				Δno·	<del>***</del> *
				Ans:	(2m)
23.	of the remainder	s \$2 400 a mon	th. She spends ; oney did she sav	of it on food. She	saves $\frac{1}{3}$
			•		
			•		·
				سيب	•
	•		-		
		•	•	Ans: \$	(2 m)
<b>30.</b>		each of the 3 to Yi. How many i	ests is 50. The ta marks did he get	able below shows th for Test 2?	e marks_
	Test 1	Test 2	Test 3	Average	
	29	?	43	38	
			₩-		•
		ů.			
				Ans:	(2m)
				***************************************	(211)

31. In the diagram below, CDE is a triangle. The point F is on line CD and line EC = line EF. ∠CEF = 28° and ∠CDE = 42°. Find ∠FED.



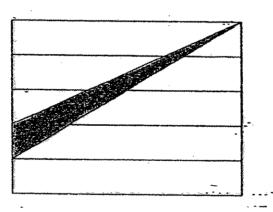
Ans:	º (2m)
------	--------

32. In an English test, Donovan's score was  $\frac{3}{4}$  of Shaun's score. Shaun's score was  $\frac{5}{6}$  of Tricia's score. What fraction of Tricia's score is Donovan's score? (Express your answer in its simplest form)

33. Clara and Yvette shared some beads in the ratio of 5 : 4. Clara gave ¹/₂ of her beads to Yvette who then had 32 more beads than what Clara had left. How many beads did they have altogether?

Ans: _____(2m)

34. The figure below contains 5 rectangles of equal area. What fraction of the figure is shaded? (Express your answer in the simplest form)



Ans: _____(2m)

35. Q represents a number between 20 and 30. When Q is doubled, it is 36 more than when Q is halved. Which number does Q represent?

Sec	tion	C	50	mai	rks)

For questions 36 to 48, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks allocated is shown in brackets [ ] at the end of each question or part question.

36. The number of Chinese at a concert is  $\frac{3}{4}$  the number of Malays. The number of Indians is  $\frac{1}{3}$  the number of Chinese. If there are 126 Chinese, how many people are there at the concert?

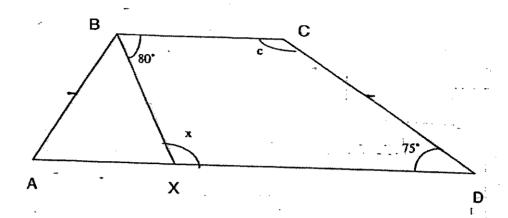
Ans: _____[3]

- 37. Meiyi has \$y and Cindy has twice as much as Meiyi.
  - (a) Express their total amount in terms of y.
  - (b) If Cindy has \$38, how much do they have altogether?

Ans: (a)_____[1

(b) 2

38. The figure below is not drawn to scale. ABCD is a trapezium. Calculate the sum of  $\angle$  x and  $\angle$  c.



_	<u>*</u>			
Ans:		ſ	3	1

39. Anne and Sally had 1436 beads altogether. After receiving 376 beads from Anne, Sally had thrice as many beads as Anne. How many beads did Sally have at first?

40. Emily was twice as old as Jimmy 5 years ago. In 10 years' time, Jimmy will be 32 years old. How old is Emily now?

Ans: _____[ 3 ]

41. In 2005, the ratio of the number of boys to the number of girls in a school was4 : 3. In 2006, 1620 more pupils joined the school and there were thrice as many girls and twice as many boys as in 2005.How many pupils were there in the school in 2006?

Ans: _____[3]

42. One day, during a pet show-and-tell session in class, 8 pupils brought a dog each while the rest of the pupils brought a cat each. If there were 174 legs altogether in the classroom,

(a) how many pupils were there ?

(b) how many more cats than dogs were there?

Ans:	(a)	[	2	]
	(b)	[	2	1

43. Tina, Ken and Roger share 460 marbles. Tina gets 33 more marbles than Ken. Roger gets  $\frac{1}{3}$  as many as Ken. How many more marbles than Roger does Ken have?

Ans: _____[4]

- 44. There are 224 golf balls in Box P and Box Q. When 48 golf balls were transferred from Box P to Box Q, the ratio of the number of golf balls in Box P to Box Q becomes 5:9.
  - (a) How many golf balls should be transferred from Box Q to Box P so that the number of golf balls in both boxes is the same?
  - (b) What is the ratio of the number of golf balls in Box Q to Box P at first? (Leave your answer in the simplest form.)

Ans: (a	a)		[ 2	
	(b)	T:	,	

. . . . . . . . . . . .

45. In Semester One, Kelly earned a total of 150 silver and gold stars. All earned 55 silver stars and 15 gold stars. Each silver star was worth 3 points. Each gold star was worth 5 points each. Kelly scored 390 more points than him.

(a) How many points did Kelly score?

(b) How many silver stars did Kelly earn?

Ans:	(a)	[2	
		<del>-</del>	

(b) ______ 3 ·

46. Eddy gets \$4 more pocket money than Sam each week. They each spend \$11 per week on food and save the rest. After a few weeks, Eddy managed to save \$65 and Sam only managed to save \$45. How much pocket money does Sam get each week?

Ans: _____[5

47. Eugene spent  $\frac{5}{12}$  of his money on 12 magazines and 100 stickers. The next day, he bought another 18 magazines and 112 stickers with the remaining amount of money, How many stickers could Eugene buy with all his money?

Ans: _____[5]

48. The number of tutors to the number of pupils at a tuition centre is 3:22 respectively. The number of girls is  $\frac{4}{7}$  the number of boys. If there are 18 fewer girls than boys, how many tutors are there at the tuition centre?

Ans: _____[5]

End of Paper
Please check your work carefully.



ROSYTH PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 CONTINUAL ASSESSMENT (1)

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1.3	27).	• -	. وو	
2.3		$\vee$ .   $\wedge$	/ <u>.</u>   .	•
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8.4	****		/ .   .   .	•
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11.2	28)Tim→			
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/13.1 =	Luis	<del>)</del> 4K+8		
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17.479		0 <del>=</del> 5=\$480		
18.37		D-\$ <b>480=\$</b> 19	20	
19.76285	\$192	0÷3=\$640		
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21. ¼	30) 43±2		Aribio b	u Vicinii.
22.8:13		3=114		
2 <b>3.</b> 125°	114-	-72=42		
24.5/14				
25.16:1	31) 180°	-28° =152°		_
26. 13:11	152°	÷2=76°		
	180°	-76° -42° =	=62°	
(1986)	62° -	28°=34°		
20000000			5000F	

```
32) D:S
          S:T
         5: 6
   3:4
          20:24
  15: 20
   D = 15
      24
33)72 beads
34)1/10
35) 24
36) C:M __C:T __C:M:T
          3:1
  126÷3=42
  4+3+1=8
  42x8=336
 There are 336 people at the concert.
37)a)Meiyi >$y
     Cindy >> $yx2
      =$2y
     Total→$2y+$y=$3y
     The total amount is $3y
   b) $38 \div 2 = $19
      $19x3=$57
      They have $57 altogether.
```

```
38) ∠c→180° -75° =105°
    180° -80° =100°
    180° -100° =80°
    ∠x→180°° -80°
    =100%
   ∠c+∠x→100°+105°
   =205°
   The sun is 205°
 39)1436+4=359
    359x3=1077
    1077-376=701
    Sally had 701 beads at first.
 40) 32-10=22
    22-5=17
    17x2 = 34
   34+5=39
    Emily is 39 years
 41)8-4=4
    9-3=6
6+4=10
   1620÷10=162
    9+8=17
   162 \times 17 = 2754
   There were 2754 pupils in the school in 2006.
 42)a) There were 29 pupils
    b)21-8=13
      There were 13 more cats than dogs.
 43) 460-33=427
    427 \div 7 = 61
    3-1=2
    61x2=122
```

Ken has 122 more marbles than Roger.

```
44)a)224 \div 14 = 16
     9-5=4
     4÷2=2
     16x2=32
   32 golf balls should be transferred from box Q to
Box P.
    b)16x5=80
      16x9=144
      80+48=128
      144-48=96
      Q : P
     96:128
     48: 64
     24 2 32
      12 : 16
    The ratio is 3:4
45)15x5=75
   165+75=240
   240+390=630
   a) Kelly scored 630 points.
   b) Kelly earned 60 silver stars.
46) $65-$45-420
    $20÷4=5
    $45÷5=$9
    $9+$11=$20
```

Sam get \$20 each week.

```
47)12-5=7
7-5=2
18-12=6
112-100=12
2u→6 magazines +12 stickers
(6mag+12stic) x2(12mag+24stic)
100-24=76
1u→76 stickers
12u→912 stickers
Eugene could buy 912 stickers
with all his money.
```

48)18÷3=6 7+4=11 11x6=66 66÷22≠3 3x3=9 There are 9 tutors at the tuition centr



# Rosyth School First Semestral Assessment 2007 Mathematics Primary 6

	Total 100
Register No	Duration: 2 hr 15 min
Parent's Sign	nature:
	<del>-</del>

### **Instructions to Pupils:**

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 2 booklets, Booklet A and Booklet B.
- 4. For questions 1 to 15 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS).
- 5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Booklet A	20	
Booklet B Q16 to Q35	30	
Booklet B Q36 to Q48	50	
Total	100	

* This pape	r consists of	23	pages altogether.
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#### Section A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. Find the value of 18 000 x 300.
  - (1) 5 400
  - (2) 54 000
  - (3) 540 000
  - (4) 5 400 000
- 2. How many tenths are there in  $1\frac{1}{2}$ ?
  - (1) 10
  - (2) 15
  - (3) 3
  - (4) -4-
- 3. Express 0.2 as a percentage.
  - (1) 0.2%
  - (2) 2%
  - (3) 20%
  - (4) 200%
- 4. Simplify  $3m \times 4 + m + 5$ .
  - (1) 7m + 5
  - (2) 8m + 5
  - (3) 12m + 5
  - (4) 13m + 5

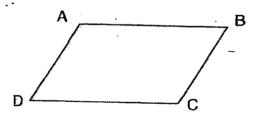
5. Ken's mass is  $\frac{5}{8}$  of Muthu's mass.

What is the ratio of Muthu's mass to their total mass?

- (1) 5:8
- (2) 8:5
- (3) 5:13
- (4) 8:13
- 6. Joyce had \$84. She spent  $\frac{2}{3}$  of it on some books and saved the rest.

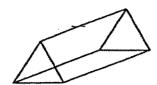
How much did she save?

- (1) \$28
- (2) \$42
- (3) \$56
- (4) \$70
- 7. Which one of the following statements about the parallelogram is true?

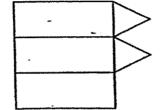


- (1)  $\angle ABC = \angle BCD$
- (2) ∠CDA = ∠DAB
- (3)  $\angle CBA + \angle DCB = 180^{\circ}$
- (4)  $\angle ADC + \angle CBA = 180^{\circ}$

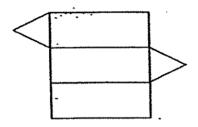
8. Which of the following is not a net of the solid shown below?



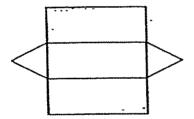
(1)



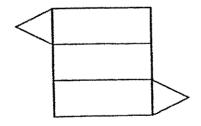
(2)



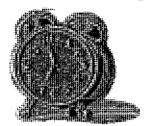
(3)



(4)

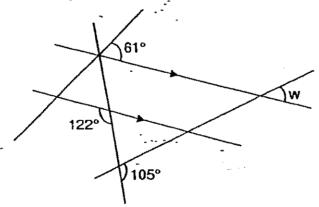


9. Peter was late for his school one morning.
What is the time shown on the clock?



- (1) 06 57
- (2) 07 57
- (3) 18 57
- (4) 1957
- 10. A toy car travels at a speed of 300 m/min. The speed is reduced by 20% after the first minute due to a weak battery. If the speed continues to reduce by the same amount every minute, how long does it take for the toy car to stop by the time the battery is flat?
  - (1) 36 min
  - (2) 15 min
  - (3) 5 min
    - (4) 4 min
- 11. Willy and Sam both had some savings.  $\frac{2}{3}$  of Willy's savings is  $\frac{1}{5}$  of Sam's savings. If Sam saved \$84 more than Willy, how much was their total savings?
  - (1) \$96
  - (2) \$144
  - (3) \$156
  - (4) \$288

- 12. Winnie had four 25-gram weights and four 20-gram weights. She placed some of these weights on a digital weighing scale. Which of the following could be the reading shown on the scale?
  - (1) 35 g
  - (2) 55 g
  - (3) 130 g
  - (4) 170 g
- 13. A CD player and a computer cost \$2445. A television set and a CD player cost \$645. The computer cost 5 times as much as the television set. How much does the CD player cost?
  - (1) \$195
  - (2) \$300
  - (3) \$360
  - (4) \$450
- 14. The following diagram is not drawn to scale. Find ∠w.



- (1) 47°
- (2) 58°
- (3) 61°
- (4) 75°

- 15. Justin and Mingli had 128 stamps altogether. The ratio of the number of Justin's stamps to the number of Mingli's stamps is 1:3. If Mingli gave  $\frac{1}{6}$  of his stamps to Justin, find the difference in the number of stamps between Justin and Mingli.
  - (1) 16
  - (2) 32
  - (3) 48
  - (4) 80



## Rosyth School First Semestral Assessment 2007 Mathematics Primary 6

Name:	
Class: Pr 6	Register No
Date: 11 May 2007	Parent's Signature:

## **BOOKLET B**

### Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This booklet consists of 3 sections.
- 4. For questions 16 to 48, show all relevant working in the spaces provided.
- 5. ANSWER ALL THE QUESTIONS.

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Sec	ctio	n B
36	LII	'II D

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units,
give your answers in the units stated. (10 marks)

16. Write 1 million, 2 hundred and forty thousand and thirty in figures.

Ance	
Ans:	

17. Find the value of 8001 - 426.

18. The table shows the times taken by 4 adults in a swimming race.

Who came in last in this race?

Name	Time (seconds)
Mark	55.25
Ahmad	52.98
Ramesh	54.9
Adnan	55.3

Ans:	
Ans:	

19. Find the value of  $\frac{4}{7} \times \frac{3}{8}$ . (Give your answer in its simplest form.)

Ans:			
Ans.			

20. What is 35% of \$600?

Ans: \$_____

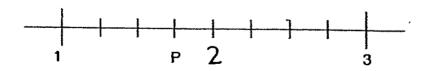
21. Kassim cycles to school at a speed of 5 km/h. He takes 12 minutes to reach his school. What is the distance between his home and school?

Ans: ____km

22. The ratio of the number of oranges to the number of pears in a box is 5:9. If there are 55 oranges, how many pears and oranges are there altogether in the box?

Ans:

23. What is the value of P? Express your answer as a fraction in its simplest form.



Ans:

24. A rectangle has a length of 4r cm and breadth of 3 cm. Find its perimeter.

Ans: _____cm

25. Meiling uses 3 teaspoons of salt for every 7 cups of water to make a bottle of solution. Using the same proportion, if she makes 40 bottles of solution, how many teaspoons of salt does she use?

Ans: _____

 6.	ire units, give your ans				narks)
0.	Nurul is a young child what will be her heigh	_		is 110 cm taiΓπον	ν,
	, , , , , , , , , , , , , , , , , , ,				
•		•		•	
	* .				
		•••			•
			Ans:		cm
7.	,				las
7.	Daryl has 40 marbles 20% more marbles th				
			many marbles cloes	Sherman have?	
			many marbles cloes		
	20% more marbles the	speed of 60 km/	Ans: Th. A hawk can fly a 10 km each, how m	Sherman have?	km/h.

-,------

29. The table shows the amount of syrup and water Lilian used for making a drink.

Amount of -	400	600	800	1000
Amount of	600	900	1200	1500
water (ml)			· ·	<u>:</u>

Using the same proportion, how much water is needed if 500 ml of syrup is used?

Ans:				m{
------	--	--	--	----

30. Siti saves 25% of her pocket money each month. Her mother gives her \$200 as pocket money each month. How much will she save in a year?

Ans: \$	
---------	--

31. The ratio of the number of bookmarks Kelly has to the number of bookmarks

Yiming has is 3:4. The ratio of the number of bookmarks Kelly has to the number of
bookmarks Raj has is 2:7. If they have 280 bookmarks altogether, how many
bookmarks does Kelly have?

Ans:	*
4112.	

32. Mr Lee wishes to fence up his rectangular garden. The breadth of the garden is b metres. The length is twice its breadth. If the cost of the fencing is \$35 per metre, find the cost of fencing the whole garden.

Ans: \$_____

33. The ratio of the amount of money Joshua had to the amount of money Ali had was 1:4. After Joshua received \$40 from his mother, the ratio became 3:8. How much was the total amount of money they had at first?

Ans: \$_____

34. Jiali has 18 books in her collection. Kumar has thrice as many books as Jiali has. Haresh has half the number of books Kumar has. How many books do the three children have altogether?

Ans: _____

35. Aziz and Manish had some toy cars in the ratio 2:5. After Aziz received 37 toy cars and Manish received 16 toy cars, both boys had an equal number of toy cars. How many toy cars did they have altogether at first?

Ans: _____

_				
C	ec	41.	~~	$\sim$
•	EL	LIL	<i>)</i>   1	•

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.

The marks for each question or part-question is shown in brackets ( ) at the end of each question. (50 marks)

36. 3 pails A, B and C each contained a certain amount of paint. When  $\frac{1}{4}$  of the paint in pail A and  $\frac{1}{5}$  of the paint in pail C was poured into pail B, the 3 pails each had 10.2 litres of paint. How much paint was there in Pail B at first? (Express your answers in millilitres).

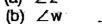
Ans:_____(3m)

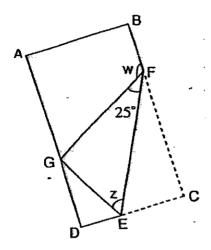
37. The ratio of Ali's money to Jay's money is 5:3. The ratio of Jay's money to Dave's money is 4:2. The three boys had a total of \$988. How much more money does Ali have than Dave?

Ans:_____(3m)

14

38. ABCD (not drawn to scale) is a rectangular piece of paper folded along FE. ∠EFG is 25°. Find (a) ∠z





Ans	•	(a)(	1m)

b	١	-	_	_		(	21	n	1

39. I durian cost 3 times as much as a mango. Mrs Lee spent  $\frac{3}{7}$  of her money on some mangoes and  $\frac{1}{4}$  of her remaining money on 3 durians. How many mangoes did she buy?

Ans∕. (3m)

40. A library had 1560 books and magazines. 25% of them were magazines. After buying more new magazines, the number of magazines became 35% of the total number of books and magazines. How many new magazines were bought?

Ans: _____(3m̄)

41. There are 60 shirts and pants in a stall. Each shirt costs \$9 and each pair of pants costs \$7. If the total cost of the shirts is \$188 more than the total cost of the pants, how many shirts are there in the stall?

Ans : _____(3m)

16

42. 60% of the pupils in a training camp wore spectacles. 80 of these pupils were boys and the remaining  $\frac{1}{3}$  were girls. 12 girls in the training camp did not wear spectacles. What percentage of the total number of pupils in the camp were boys who did not wear spectacles?

Ans:_____(4m)

43. A cyclist travelled from Town A to Town B at the speed of 29 km/h. After he had travelled 116 km, a motorist whose speed was-3 times that of the cyclist left Town A and travelled along the same route to Town B. How far did the motorist travel when he met the cyclist?

Ans : _____(4m)

18

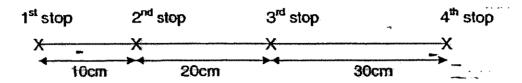
44. The number of grey marbles to black marbles in a bowl was in the ratio of 4:5. Later, 8 grey marbles were taken out and 20 black marbles were added into the bowl. After that, the ratio of grey marbles to black marbles became 4:11. How many marbles of each colour were in the bowl in the end?

Ans : Grey marbles : ______ (4m)

45. At first, Eddy had more stickers than Fandi and Gigi had 2 times as many stickers as Fandi. After Fandi bought another 15 stickers, Gigi lost half of what she had and Eddy lost 7 stickers, Fandi now had 2 more stickers than Eddy. In the end, the children had 133 stickers in total. How many stickers did each child have at first?

20

46. A toy robot is programmed to travel in a straight line and to stop after moving a certain distance in the pattern as shown below:



- (a) How far is the 5th stop from the 1st stop?
- (b) What is the distance between the 1st stop and the 100th stop?

Ans: (a) _____(1m)

(b) _____(4m)

47. Jim and George exchanged stamps with each other. At first, Jim gave  $\frac{2}{3}$  of what he had plus 5 more stamps to George. Then, George gave  $\frac{3}{5}$  of what he had to Jim. Next, Jim gave  $\frac{1}{8}$  of what he had to George. In the end, Jim had 343 stamps and George had 257 stamps. How many stamps  $\overline{\text{did}}$  each of them have in the beginning?

- 48. A box contained some twenty-cent coins, some ten-cent coins and some five-cent coins in the ratio of 3:2:1 respectively.  $\frac{3}{5}$  of the twenty-cent coins were taken out and replaced by the same number of five-cent coins. Then 120 ten-cent coins were taken out and replaced by the same number of five-cent coins. In the end, the ratio of the number of twenty-cent-coins, ten-cent coins and five-cent coins became 6:5:19 respectively.
  - (a) What is the total number of coins taken out of the box?
  - (b) What is the total value of the coins taken out of the box?

Ans:	(a)	(3m)
	(b)	(2m)

End of Paper

23



ROSYTH PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

1.4 27).40x2=80	
2.2 80->100%	
3.3 16→20%	
4.4 80+16=96 marbles.	
<i>,</i> 54	
6.1 28) Falcon Hawk	
7.3 / 1n→60km 1h→10	)Okm
8.1 / 10mins→10km 6mins	<b>→</b> 10km
9.1 10-6=4min	
10.3	
11.3 29) 900-600=300	
12.3 300÷2=150	
13.1 600+150=750ml	
14.1	
15.2 30) $\frac{25}{160} = 200.50$	
16.1240030 100 x 200=50 17.7575 50x12=600	ès.
18. Adrian	
19.3/14	
20. \$210	
21.1km	
22.154 pears and oranges	
23.1 %	
24.(8r+6)cm	iiiia.
25.120 teaspoons of salt	
26.5cmx2=10cm	
5cm÷2=2.25cm	
10cm+2.25=12.5cm	
110cm+12.5cm=122.5cm	

```
31)48 book marks
```

32) bmx2=2bm
(2bmx\$2) + (bmx2)
=4bm+2bm
=66m
\$(6bmx\$35) =\$210b

33)\$400

34)Jia1i→18 books Kumar→18x3=54 books Haresh→54÷2=27 books 27+54+18=99 books

35)5-2-3 37-16-21 3u→21 1u→7 7u→49 toy cars

36)10.2÷3=3.4 10.2÷4=2.55 3.4+2.55=5.95 10.2-5.95=4.25 =4 ¹4 1 =4250m1

There was 4250ml of paint in pail B at first.

37)\$988÷19=\$52 10-3=7 \$52x7=\$364 Ali have \$364 more than Dave.

38)a)  $180^{\circ} -25^{\circ} -90^{\circ} =65^{\circ}$   $\angle z$  is  $65^{\circ}$ b)  $180^{\circ} -25^{\circ} -25^{\circ} =130^{\circ}$   $\angle w$  is  $130^{\circ}$ 

```
39)7-3=4
   4 \div 4 = 1
   lu→3 durian
   lu<del>)</del>3x3=9 mangoes
   3u→9x3=27 mangoes
   She bought 27 mangoes
40)75
       x1560=1170
  100
  4560-170=390
  100%-35%=65%
  65%-->1170
   5%-->90
  35%-->630
  630-390=240
  240 new magazines were bought
41) There are 38 shirts in the stall
42)2/3->80
   1/3->40
    3/3<del>></del>120
    60%-->120
    20%-->40
    100%-->200
    200-120-80
    80-12=68
    68
          34
  200 = 100
    =34%
  34% of the total number of pupils in the camp
were boys who did not wear spectacles.
```

43) 116km  $\div$  29km=4h

29kmx3=87km

Cyclist		Motorist
116km	o h	0 km
$174  \mathrm{km}$	$1^{st}$	87 <b>km</b>
174km	$2^{nd}$	174km

The motorist traveled 174km when he met the cyclist.

```
44) There were 20 grey marbles and 55 black marbles in the end.
```

45)15-2=13 133-13-15=105 105÷3=35 (Fandi) 35+13+7=55(Eddy) 35x2=70(Gigi)

Fandi had 35 stickres, Eddy had 55 stickers and Gigi had 70 stickers at first.

46)a)30cm+10cm=40cm
40cm+30cm+20cm+10cm=100cm
=1m
 It is 1 m far.
b)45000+450=49500cm
=495m
 The distance is 495m

47) 343 ÷ 7=49 49x8=392 (Jim) 257-49=208 (George) 208 ÷ 2=104 104x5=520 (George) 104x3=312 392-312=80 (Jim) 80+5=85 85x3=255 (Jim) 520-170=350 350-5=345 (George)

Jim have 255 stamps and George have 345 stamps in the beginning.

48)a)336 coins b)\$55.20

---end---



# Rosyth School Preliminary Examination 2007 Mathematics Primary 6

Name:	ingline and a second control of the second control of the second control of the second control of the second co	Total 100
	Register No	Duration: 2 hr 15 min
Date: 21 st August 2007	Parent's Signatu	re:

### Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 3 sections: Section A, Section B and Section C.
- 4. For questions 1 to 15 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
- 5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	20	
Section B	30	
Section C	50	
Total	100	

^{*} This paper consists of 24 pages altogether.

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Section A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- 1. The value of the digit 7 in 1 073 068 is _____
  - (1) 700
  - (2) 7 000
  - (3) 70 000
  - (4) 700 000
- 2. Which of the following has the greatest value?
  - (1)  $\frac{7}{10}$
  - (2)  $\frac{5}{8}$
  - (3)  $\frac{3}{5}$
  - (4)  $\frac{4}{9}$
- 3. Brandon had 20 words to learn for a spelling test and he spelt 20% of the words incorrectly.

How many words did he spell correctly?

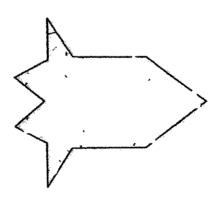
- (1) 2
- (2) 4
- (3) 14
- (4) 16

1

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)

- 4. A machine can print one set of cards in 15 mins.
  How many sets of cards can the same machine print in 5 hours?
  - (1) 75
  - (2) 20
  - (3) 5
  - (4) 4
- 5. In the figure shown below (not drawn to scale), how many angles inside the figure are greater than 90°?



- (1) 5
- (2) 7
- (3) 8
- (4) 12

)

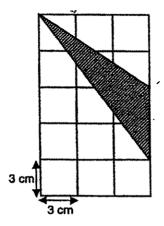
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6. Find the area of the shaded portion of the figure, given that the grid is made up of 3-cm squares.



- (1) 3 cm²
- (2) 6 cm²
- (3) 27 cm²
- (4) 54 cm²
- 7. 3 pupils share some cards in the ratio 3:9:4.

  If the smallest share is 18 cards, how many cards are there in all?
  - (1) 6
  - (2) 24
  - (3) 54
  - (4) 96
- 8. The average of 5 numbers is 66. The sum of four of the numbers is 60. Find the fifth number.
  - (1) 6
  - (2) 90
  - (3) 126
  - (4) 270

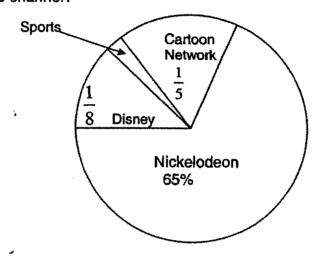
3

- 9. Express 0.45 as percentage.
  - (1) 0.45 %
  - (2) 4.5 %
  - (3) 45 %
  - (4) 450 %
- 10. The breadth of a rectangle is x cm and the length is 3 times its breadth. Find the perimeter of the rectangle.
  - (1) 3x cm
  - (2) 6x cm
  - (3) 8x cm
  - (4) (2x+6) cm
- 11. Ashley had a length of string. She gave  $\frac{1}{3}$  of it to Daisy and  $\frac{1}{4}$  of the remainder to Jamie. What fraction of the string did Jamie get?
  - (1)  $\frac{3}{4}$
  - (2)  $\frac{1}{2}$
  - $\frac{1}{4}$
  - $(4) \frac{1}{6}$

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14. The pie chart shows the favourite television channel of students in a class What percentage of the students in the class chooses Sports as their favourite channel?



- (1) 2.5%
- (2) 12.5%
- (3) 20%
- (4) 35%
- 15. The usual selling price of a laptop is \$1 800.

What is its price when there is a 7% discount?

- (1) \$126
- (2) \$540
- (3) \$1 674
- (4) \$1 926



# Rosyth School Preliminary Examination 2007 Mathematics Primary 6

Name:	Su	btotal	80
Class: Pr 6 : Register No	· mentamographic disputation of disputa-	•	
Date: 21 st August 2007	Parent's Signature:		

# **BOOKLET B**

# **Instructions to Pupils:**

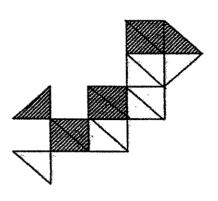
- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This booklet consists of 2 parts, Section B and C.
- 4. For questions 36 to 48 in Section C, show all relevant working in the spaces provided.
- 5. ANSWER ALL THE QUESTIONS.

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For each question, write your answers in the spaces provided. Show your working selow each question. Give your answers in the units stated. Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each.			
16. What is the missing number in this sequence	<del>e</del> ?		
2, 6, 12, 20,, 42,			
	Ans:	(1m)	
17. Express 57 min as a fraction of 3 hours in it	s simplest form.		
· · · · · · · · · · · · · · · · · · ·			
	Ans:	(1m)	
18. Joseph saves \$400 every three months.  How many years will he take to save \$640	0?		
3			
	Ans:	(1m)	
19. Which number is both a multiple and a fact	or of 36?		
	Ans:	(1m)	

2.75

20. What fraction of the figure below is unshaded? (Give your answer in its simplest form).



Ans: _____(1m)

21. 30% of a number is 21. What is 90% of the same number?

Ans: _____(1m)

22. A solid has a volume of 959 cm³. If the height of the solid is 7 cm, find the base area.

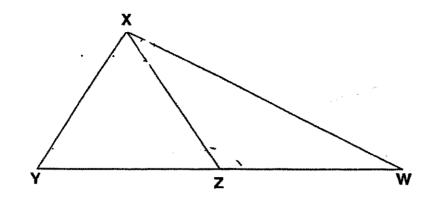
Ans: _____cm² (1m)

8

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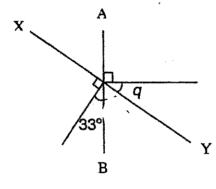
and xz is equal to "

23. In the figure (not drawn to scale), XYZ is an equilateral triangle. What is the value of ∠ZXW?



Ans: _____° (1m)

24. The figure below is not drawn to scale. AB and XY are straight lines. Find angle q.



Ans: _____° (1m)

25. An aeroplane travelled 109 408 km in 8 hours. Find the aeroplane's average speed.

Ans: _____km/h (1m)

26.	In 8 years' time, Richard will be half	his mother's	age. If	his mother	is 58
	years old now, what is Richard's age r	iow?	•		

Ans: _____(2m)

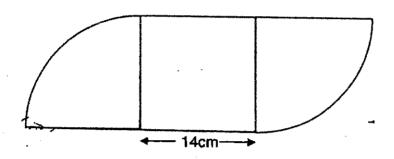
27. Harry wants to buy a handphone. His savings is only  $\frac{3}{5}$  of the price of the handphone and he needs \$112 more. What is the price of the handphone?

Ans: \$_____(2m)

28. Simen bought 45 fifty-cent stamps and some twenty-cent stamps. He gave the cashier \$50 and received \$15.30 change. How many twenty-cent stamps did Simon buy?

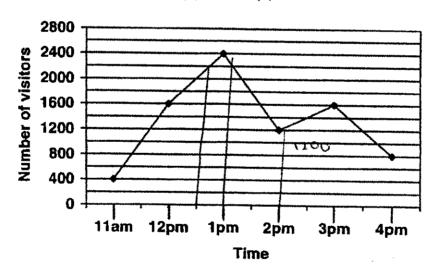
Ans: ______(2m

29. The figure shows a square and 2 quarter circles. Find the area of the figure. (Take  $\pi = \frac{22}{7}$ )



Ans: ____cm² (2 m)

30. The graph below shows the number of visitors at a shopping mall. Study the graph and answer questions 30(a) and 30 (b)



- a) How many visitors are there at 12.30 p.m.?
- b) What was the decrease in the number of visitors from 1pm to 2pm?

Ans: a) _____ (1m)

o) _____(1m)

31. If a = 6, find the value of  $8a - a \div 6$ .

Ans: _____(2m)

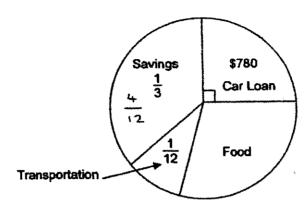
32. The sum of 3 consecutive even numbers is 522. Find the biggest number.

Ans: ______(2m)

33. The canteen vendor sold  $\frac{1}{5}$  of his puffs on Thursday and  $\frac{1}{2}$  of the remainder on Friday. If he sold 19 puffs more on Friday than on Thursday, how many puffs did he sell for the two days altogether?

Ans: _____ (2m)

34. The pie chart below shows the amount of money that Tommy spent in a month.



How much did Tommy spend for food?

<del>-</del>

<u>n</u>	n	)
1	n	m

35. The ratio of the number of stamps Michael has to the number of stamps Cheryl has is 1:3. The ratio of the number of stamps Cheryl has to the number of stamps Vanessa has is 6:7. If Michael has 15 stamps less than Vanessa, how many stamps does Cheryl have?

Ans: (2m)

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Sec	ctio	n	C
	- 44 4		•

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.

The marks for each question or part-question is shown in brackets ( ) at the end of each question. (50 marks)

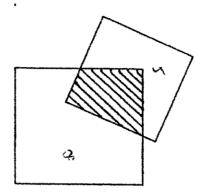
36. The average weight of 5 boys is 8w kg. When 2 more children whose weights are 11w kg and 12w kg respectively joined the group, what is the average weight of the boys now?

Ans: _____(3m)

37. A tank with a square base of side 5 m was  $\frac{1}{3}$  full of water. When another 100 m³ of water was poured into the tank, it became  $\frac{1}{2}$  full. Find the capacity of the tank.

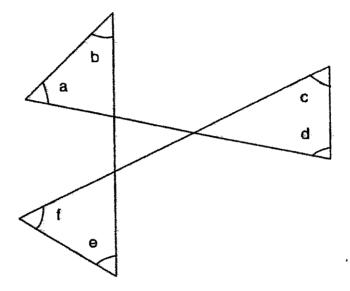
Ans: _____(3m)

38. In the figure not drawn to scale, the ratio of the area of the bigger square to the smaller square is 8 : 4. If 25% of the larger square is shaded, what percentage of the whole figure is <u>not</u> shaded?



Ans : _____ (3m)

39. Find the sum of the six marked angles in the diagram.



Ans: ____(3m)

40.	Machine A can do a printing job in 2 hours. Machine B can do the same job
	in 3 hours. If both machines are used at the same time, how long would it
	take to complete half the printing job?

Ans: _____(3m)

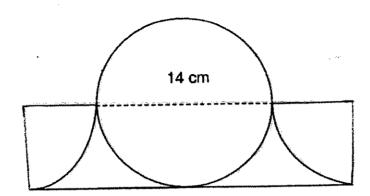
41. The table below shows the rates at which a construction worker is being paid daily.

For first 8 hours of work	\$10 per hour (Normal rate)
Overtime pay per hour	1.5 x Normal rate

How many hours must he work in a day to earn \$140 ?

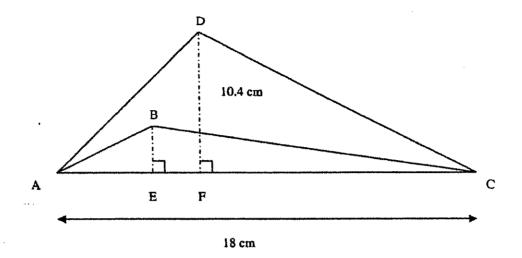
Ans	:	(3m)

42. Find the <u>area</u> of the figure. (Take  $\pi = \frac{22}{7}$ )



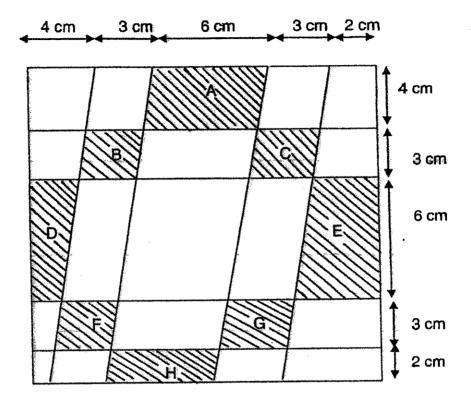
Ans:_____(4m)

43. The area of the figure ABCD is 48.5 cm². Find the length of BE. (Give your answer to the nearest tenth)



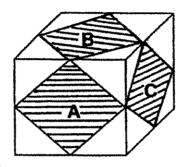
Ans: ____ (4m)

44. The figure below is not drawn to scale. What fraction of the figure is the total area of the shaded regions A, B, C, D, E, F, G and H?



Ans	٠	(5m)
コロラ		( -, 11,

45. The figure shows a cube with 3 painted parts A, B and C. These painted parts are of the same area and they are touching the midpoints of the sides of the cube. The total area of the painted parts is 54 cm². Find the volume of the cube.



Ans : _____(4m)

46. The total cost of 28 textbooks and workbooks is \$784.  $\frac{3}{4}$  of the books are textbooks and the remaining books are workbooks. A workbook cost half as much as a textbook. Find the difference in the price of a textbook and a workbook.

Ans: ____(5m)

47. The perimeter of a rectangle to that of a square is in the ratio of 11:6. If the square has an area of 144 m² and the length and breadth of the rectangle are in the ratio of 6:5, find the length and breadth of the rectangle.

Ans: _____ (5m)

48. A bus was travelling at a constant speed from Town A to Town B. It passed a car traveling at a constant speed of 90 km/h in the opposite direction. 1½ hours later, the bus reached Town B but the car was still 25 km away from Town A. If the bus took 4 hours to complete the whole journey, what is the distance between the two towns?

Ans:		(5m)
MIJO.	 4	(0111

## **End of Paper**

		,	4nswer	考记子》 Sheets A2/2007 Math	•
1)3	2)1	3)4	4)2	5)2	6)3
7)4	8)4	9)3	10)3	11)4	12)1
13)3	14)1	15)3	16)30	17) <del>19</del>	18)4 years
19)36	20) $\frac{1}{2}$	21)63	22)137cm²	23)30 ⁰	24)33 ⁰
25)13676km/h		26)25	27)\$280	28)61twenty-cent stamps	
29)504cm²	30)a.2000	30)b.1200	31)47	32)176	33)57
34 <u>)</u> \$1040	35)18	36)9w kg	37)600m³	38)80%	39)360°
$40)\frac{3}{5}h$	41)12 hours	42)196cm²	43)5.0cm	$44)\frac{1}{3}$	45)216cm³
46)\$16	47)The leng	th is 24m Th	e breadth is 2	20m	48)256km

Name :	<u> </u>	Date:
* · ·		
Class : Primary 6 SY/C/G/SE/P		Time: 2 h 15 min

# SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2007 PRIMARY 6 EM 1/2 MATHEMATICS BOOKLET A

15 Questions

20 Marks

Total Time For Booklets A and B: 2 h 15 mins

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Booklet A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

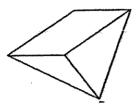
- 1. How many thousands are there in 2 040 000?
  - (1) 20 400
  - (2) 2040
  - (3) 204
  - (4) 24
- 2. What is the value of  $96 \div 8 5 \times 2$ ?
  - (1) 14
  - (2) 2
  - (3) 16
  - (4) 64
- $3. \qquad 7 + \frac{8}{10} + \frac{3}{1000} = \underline{\hspace{1cm}}$ 
  - (1) 7.38
  - (2) 7.83
  - (3) 7.083
  - $(4) \cdot .7:803$
- 4. Sue shared  $\frac{1}{2}$  of a pizza with her three friends equally. What fraction of the pizza did each get ?
  - (1)  $\frac{1}{3}$
  - (2)  $\frac{1}{4}$
  - (3)  $\frac{1}{6}$
  - (4)  $\frac{1}{8}$

5. Which one of the solids is not a prism?

(1)



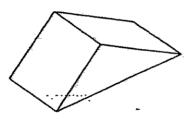
(2)



(3)



(4)

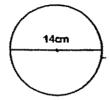


6. The table below shows the time taken by four swimmers during a competition.
Who came in first?

Swimmer	Time in seconds
Audrey	51.2
Beth	50.9
Carrie	52.8
Doreen	53.7

- (1) Audrey
- (2) Beth
- (3) Carrie
- (4) Doreen

- 7. Which one of the following is the same as 6040g?
  - (1) 6 kg 4 g
  - (2) 6 kg 40 g
  - (3) 60 kg 4 g
  - (4) 60 kg 40 g
- 8. Find the area of the circle. ( Take  $\pi = \frac{22}{7}$  )



- (1) 616 cm²
- (2) 154 cm²
- (3) 88 cm²
- (4) 44 cm²
- 9. Miss Lim drove for  $2\frac{1}{2}$  hours at 80 km/h. What was the total distance travelled?
  - (1) 80 km
  - (2) 160 km
  - (3) 200 km
  - (4) 240 km
- 10. Simplify 8a + 9 4a 4.
  - (1) 12a + 13
  - (2) 12a 5
  - (3) 4a 13
  - (4) 4a + 5

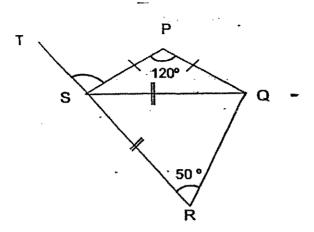
- 11. There are 15 lamp posts placed at equal distance apart along a straight road. The distance between the first and fifth lamp posts is 10 metres.
  Find the distance between the first and 15th lamp posts.
  - (1) 28 m
  - (2) 30 m
  - (3) 35 m
  - (4) 37.5 m
- 12. What is the greatest number of 4-cm cubes which can be packed into a container 80 cm by 50 cm by 30 cm?
  - (1) 2 080
  - (2) 1875
  - (3) 1 680
  - (4) 1.500
- 13. The table below shows Raju's height on the last day of each month from January to May. In which month did he grow the fastest?

Month	Height (mm)
-January	1350
February	1390
March	1410
April	1470
May	1520

- (1) February
- (2) March
- (3) April
- (4) May

14. In the figure shown below not drawn to scale, PQ = PS, QS = SR.

RST is a straight line. Find  $\angle PST$ .



- (1) 65°
- (2) 70°
- (3) 105°
- (4) 120°
- 15. Study the pattern of the figures below. How many coloured squares will there be when there are 28 white squares?





Pattem 2



Pattern 3

- (1) 56
- (2) 62
- (3) 140
- (4) 224

Name :(2)	Date: YIN MUY 2001
Class : Primary 6 SY/C/G/SE/P	Time: 2 h 15 min

# SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2007 PRIMARY 6 EM 1/2 MATHEMATICS BOOKLET B

33 Questions

80 Marks

Total Time For Booklets A and B: 2 h 15 mins

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

Time: 2 h 15 min

Name	•	\$n	(
			ι.

)

Do not write in this column

Class : Primary 6 SY/C/\$/SE/P

Booklet B (80 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

16. Which digit is in the tenths place in 485 31?

Ans: _____

17. Find the value of  $2\frac{1}{2} - \frac{4}{5}$ .

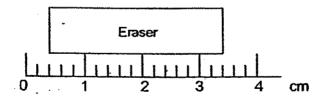
Ans:

18. What is the missing number in the box?

$$2650 \times 99 = 2650 \times -2650$$

Ans:

19. What is the length of the eraser?



Ans: ____ cm

20. Mr Singh needs one parking coupon for every  $\frac{1}{2}$  hour. How many coupons does he need for 3  $\frac{2}{3}$  hours ?

Do not write in this column

Ans:

21. Yu Kai watched a show for 1 hour 50 minutes. It ended at 13-05. What time did he start watching the show?

Ans: _____

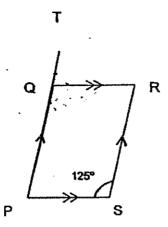
22. The volume of a cube is 216 cm³. What is the length of each edge of the cube?

Ans:____cm



23. In the figure which is not drawn to scale, PQRS is a parallelogram and ∠PSR is 125°. PQT is a straight line. Find ∠RQT.

Do not write In this column



Ans:

24. Hazel jogged round a 300-m track. What was her average speed if/she took 15 minutes to jog a complete round?

Ans: ____m/min

25. Express 20 as a percentage of 500.

Ans: _____%

3

-Questions 26 to 35 carry 2 marks each.

Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20marks)

Do not write in this column

26. The average mass of 3 boys was 45 kg. When the mass of the 4th boy was included, the average mass was 52 kg. What was the mass of the 4th boy?

Ans: ____kg

27. Mabel read some pages of a book on Monday. She read  $\frac{2}{5}$  of the book on Tuesday. If she still had  $\frac{1}{4}$  of the book to read, what fraction of the book did she read on Monday?

Ans:

28. Find the perimeter of the quadrant. ( Take  $\pi = 3.14$  )

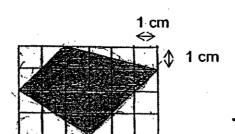


Ans: ____cm



29. Find the area of the shaded part of the figure.

Do not write in this column



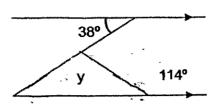
Ans:____cm²

30. Mrs Teo is 5 times as old as Valery. The difference in their ages is 48 years. How old is Mrs Teo?

Ans:____years

/4

31. In the figure below, find the value of ∠y.



Do not write in this column

Ans: _____

32. A tank is  $\frac{2}{3}$  filled with water. When another 24 litres of water are poured in, the tank becomes  $\frac{5}{6}$  full. Find the capacity of the tank.

Ans: _____ ℓ

33. During an Art lesson, the pupils have to make key chains using only 2-colours. They have a choice of 5 colours. How many types of 2-coloured key chains can they make?

Ans:



34.  $\frac{1}{2}$  of Joe's savings is 3 times as much as David's savings. What is the ratio of David's savings to Joe's savings?

Do not write in this column

Ans:

35. Isabel completed 40% of her Mathematics questions on Saturday and 70% of the remainder on Sunday. If she had 12 questions left, how many questions did she do on Sunday?

Ans:

Name: _____ ( `` )
Class: Primary 6 SY/C/\$/SE/P

Time: 2 h 15 min

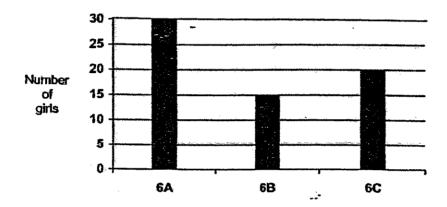
Do not write in this column

Write your answers to questions 36 to 48 in the spaces provided.

For each question, show your working clearly in the space provided.

The number of marks available is shown in brackets at the end of each question or part-question.

36. There are 40 pupils in each of the three Primary 6 classes in Super Primary School. The bar graph shows the number of girls in each class.



What percentage of the pupils in the Primary 6 classes are boys?

Ans: _____(3)



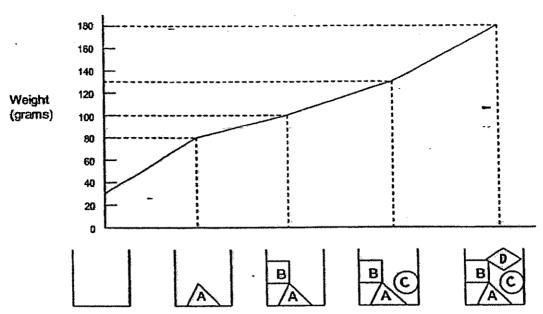
37. In a Mathematics Test, the number of passes is 164 more than the number of failures. If 6 more pupils passed the test, the number of passes will be 9 times the number of failures. Find the total number of pupils who took the test.

Do not write in this column

Ans:_____(3

38. Four Objects A,B, C and D are placed inside a container, one after another. The graph shows the mass of the container when empty and when Objects A, B, C and D are placed in it.

Do not write in this column



- (a) Name the objects which are heavier than the container.
- (b) Find the average mass of the objects.

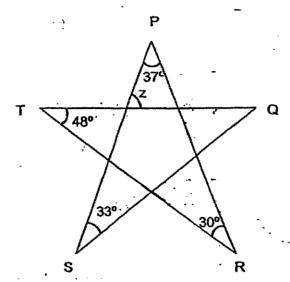
Ans: (a) ______ (1)

(b) _____ (2

Do not write in this column

39. All the 5 lines that form the star below are straight lines.

Find ∠z.



...***

Ans:_____(3)

3

		e. Machines B and C		Do not write in this column
in 4 minutes. How ma	an <b>y more</b> pages	s can Machine C prin	t in 1 minute?	
	<b>****</b> ********************************		•	
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	•	Ans:	(3)	)
Mdm Tong mixes 24 i	•	* *		
and 44 mℓ of water to of 'bandung' drink , w				

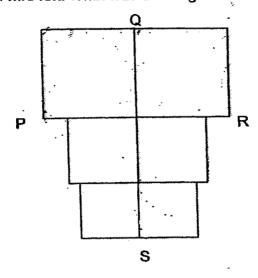
42. Friday, he sold 15 peaches fewer than the day before. He sold a total of 595 peaches. How many peaches did he sell on Saturday?

Do not write in this column

Аля:

43. Mrs Eng had a piece of wire. She cut some of the wire to form 6 squares as shown in the figure below. PR = 12 cm and QS = 23 cm. She has 53 cm of wire left. What was the length of wire at first?

Do not write In this column

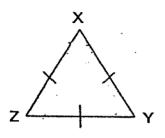


Ans: _____(4)

44. A piece of paper in Figure A is folded as shown in Figure B. ∠ YQP is 58°. _[The figure is not drawn to scale ]

Do not write in this column

- a. Find ∠YPQ.
- b. Find  $\angle YQZ$ .



 $z \stackrel{\bigwedge}{\longrightarrow}$ 

Figure A

v.	
Figure	В

Ans: (a) _____(2)

(b) ____(2)



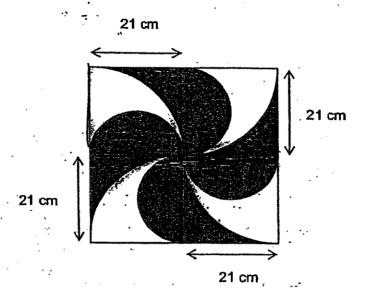
45. John had \$228 and Kevin had \$204. Kevin spent thrice as much as John. If John had thrice as much money as Kevin after spending, how much did Kevin spend?

Do not write in this column

Ans: _____(5

46. The shaded figure below is formed by semicircles, quarter circles and straight lines of length 21 cm each. It lies within a square of side 42 cm. What is the perimeter of the shaded figure? (Take  $\pi = \frac{22}{7}$ )

Do not write In this column



Ans: (5)

47. Town A and B are 484 km apart. A truck leaves Town A for Town B at 10 45 at an average speed of 64 km/h. At 14 15, a motorcyclist leaves Town B for Town A at an average speed of 40 km/h.

At what time will the two vehicles meet each other?

Do not write in this column

Ans: (a) _____(5)

-----

48. The total sale of different types of printers at Unique Store during its special 2-hour sale was \$12 150. The number of Printer A and B sold was in the ratio 5: 2. The number of Printer B and C sold was in the ratio 3: 4. The price of Printer A was \$50. The ratio of the price of Printer A to the price of Printer B to the price of Printer C was 1: 3: 6. How many printers did the store sell?

Do not write in this column

Ans: _____(5)

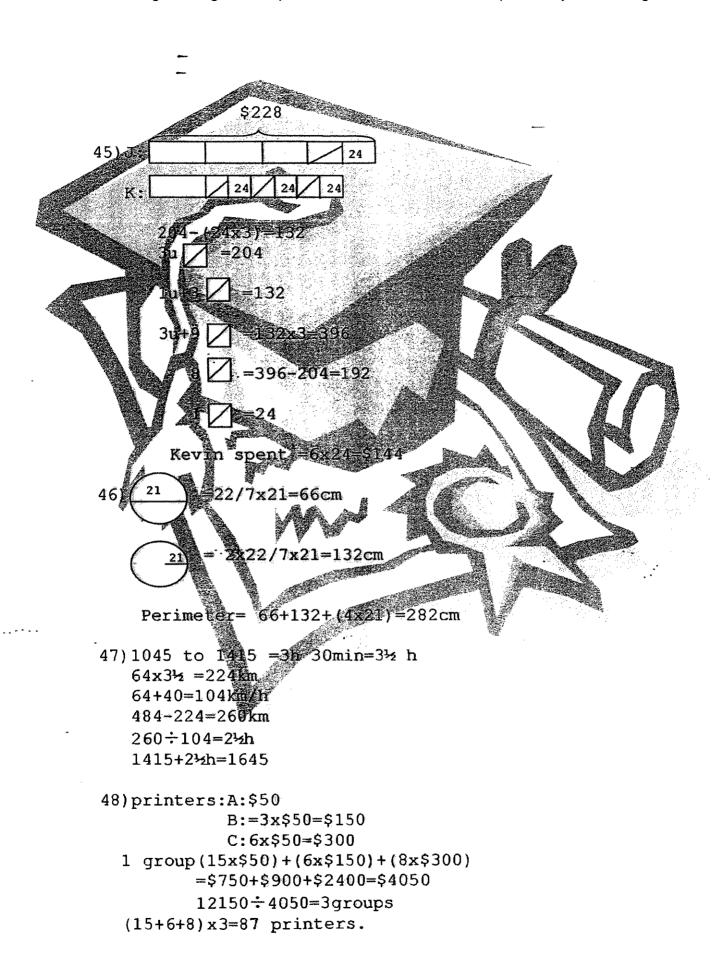


### Answer Sheet

SCGS PRIMARY SCHOOL - PRIMARY 6 MATHEMATICS 2007 SEMESTRAL ASSESSMENT (1)

```
1.
              32) 144
2.
             33)10
             34)1:6
             35) 25
                       in 6A-40-30=10
                 Boys_in_6B-40-15=25
                 Boys in 6C-40-20=20
                 Total number of boos 20+25
                 Total pupils in three classes →40x3=120
                 percentage <del>3/55/1/20x100=245/6=45</del>5/6%
             37)8u<del>></del>6≑164±6≑176
                 1u→22
14
                 10u→22x10=220
15.
16.
17. 17/10
18.100
                         38) A= (80-30),q=50g
19. 3cm
20.8
                             B#(100-80)/g=20g
C=(130-100)/g=30g
21. 1115
22.6cm
                             D = (180 - 150) q = 50q
23.55°
24. 20 m/m:
                             (50+20+60+50) g=150g
25.4%
                              150g = 4=37.5a
26.73
                             b) (50+20+30+50) g=150g
27. 7/20
                                 150q \div 4 = 37.5q
28.17.85
29.12.5
30.60 years
31.7
```

```
39) \angle z=180^{\circ} - (37^{\circ} + 78^{\circ}) = 65^{\circ}
40)76x4=304
    664-304=360
    360 \div 4 = 90
   90-76=14 pages
41)24+12+44=86mB
    Condensed milk \rightarrow 12/80=3/20
    3/20x36=9c/20L
42) Sat:
                 15 15 15 15 15 15
                 15 15 15 15 15
                 15 15 15 15
                 15 15 15
    Wed:
    Fri:
      21x15=315
      595-315=280
      280÷7=40
      Saturday = 104 (6x15) = 130 peaches.
43)23-9=14
    14-8=6
    Total length=(7x9)+(5x8)+(5x6)+53
    =186cm
44)a)180^{\circ} - (60^{\circ} + 58^{\circ}) = 62^{\circ}
    b) 180^{\circ} - (58^{\circ} + 58^{\circ}) = 64^{\circ}
```



Name :(	)	Index Number	
Class : Primary 6 SY / C / G / SE / P			

### SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET A

15 Questions

20 Marks

Total Time For Booklets A and B: 2 h 15 min

### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions

### Booklet A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. What is the missing number in the box?

160 058 = 100 000 + + 50 + 8

- (1) 60
- (2) 600
- (3) 6 000
- (4) 60 000

2. Which one of the following numbers is nearest to 10?

- (1) 9.01
- (2) 9.91
- (3) 10.01
- (4) 10.091

3. Which one of the following is the best estimate for 49.86 ÷ 97?

- (1) 5.0
- (2) 0.5
- (3) 0.05
- (4) 0.005

4. Find the value of  $28 - 12 \div 4 \times 3 + 2$ .

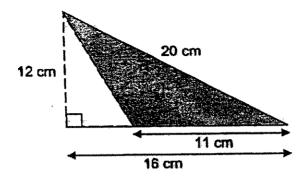
- (1) 14
- (2) 17
- (3) 21
- (4) 29

5. Which one of the following is the same as 10 h 15 min?

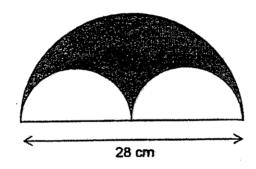
- (1) 75 min
- (2) 115 min
- (3) 615 min
- (4) 1015 min

Page 1 of 23

6. What is the area of the shaded triangle?

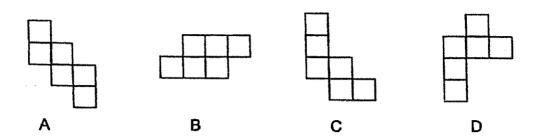


- (1) 66 cm²
- (2) 96 cm²
- (3) 110 cm²
- (4) 132 cm²
- 7. The figure is made up of a big semicircle and two identical small semicircles. Find the perimeter of the shaded part of the figure. ( Take  $\pi = \frac{22}{7}$  )



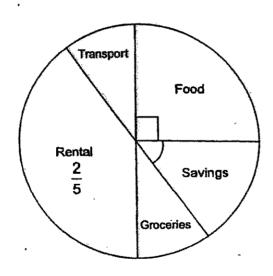
- (1) 44 cm
- (2) 66 cm
- (3) 72 cm
- (4) 88 cm
- 8. Mr Tan takes 5 minutes to saw a log into 2 equal pieces. How long would he take to saw the same log into 12 equal pieces?
  - (1) 12 min
  - (2) 30 min
  - (3) 55 min
  - (4) 60 min

9. Which of the following can be the net of a cube?



- (1) A
- (2) B
- (3) C
- (4) D
- 10. Mrs Tan bought 5 pens and 3 files. Each pen cost \$a and each file cost \$b. How much did she pay altogether?
  - (1) \$(a + b)
  - (2) (a-b)
  - (3) \$(3a + 5b)
  - (4) \$(5a + 3b)
- 11. John bought as many 20-cent stamps as 50-cent stamps. He paid \$7 for all the stamps. How many stamps did he buy altogether?
  - (1) 10
  - (1) 10 (2) 20 ·
  - (3) 30
  - (4) 40

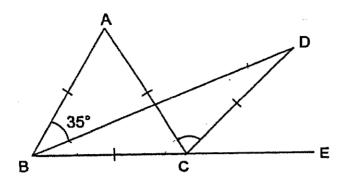
- Which one of the following is greater than  $\frac{1}{3}$ ? 12.
  - (1)
  - (2)
  - (3)
  - (4)
  - The pie chart shows how Mrs Lim used her monthly salary. 13,



What percentage of her monthly salary did she save?

- (1) (2) 15%
- 20%
- (3) 54%
- (4) 85%

14. In the figure, not drawn to scale, ABC is an equilateral triangle, BCD is an isosceles triangle and BCE is a straight line. Find ∠ACD.



- (1) 50°
- (2) 70°
- (3) 85°
- (4) 95°
- 15. Meiling gave 20% of her salary to her mother. She spent 50% of the remainder and saved the rest. What percentage of her money did she save?
  - (1) 30%
  - (2) 40%
  - (3) 50%
  - (4) 60%

Name :(	)	Index Number	
Class : Primary 6 SY / C / G (SB / P			

## SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET B

33 Questions

80 Marks

Total Time For Booklets A and B: 2 h 15 min

### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions

<u>Bookle</u>	t R	nR)	ma	rks
		·vv	1114	103

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. For each question, write your answer in the space provided.

Give your answers in the units stated.

Do not write in this column

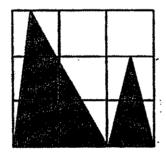
16. A number when rounded off to the nearest thousand is 870 000. What is the greatest possible number?

Ans:

17. Write 2 tens 7 hundredths and 6 thousandths as a decimal.

Ans:

figuit.
What fraction of the rectangle is shaded? 18.

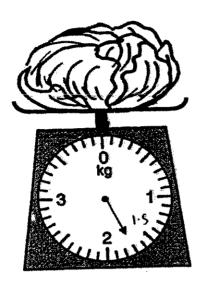


Express  $2\frac{3}{5}$  km in metres. 19.

Page 6 of 23

20. Look at the reading indicated on the weighing scale.
What is the mass of the cabbage?
(Give your answer in kg and g.)

Do not write in this column



Ans: _____ kg____g

21. The sum of 8 numbers is 416. What is the average of the numbers?

. Ans:_____

22. A muffin cost twice as much as a pancake. Jane spent  $\frac{1}{4}$  of her money on 5 muffins. How many pancakes could she buy with the rest of her money?

Ans:

3

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Page 8 of 23

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write In this column

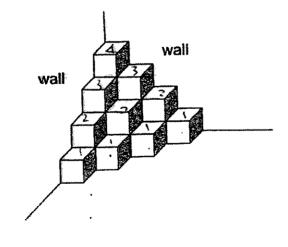
26. Express  $2\frac{1}{2}$ % as a decimal.

Áns≵	

27. Deming bought some files for \$48 at a discount of 20%.
Given the discount, he was able to buy 3 more files at the usual price.
What was the usual price of each file?

Afns:	\$	
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28. The figure shows a solid leaning against two walls. The solid is made up of some 1-cm cubes. Find the volume of the solid.



Ans:	cm ³

6

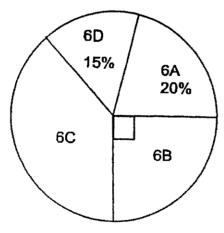
29.	A rectangular tank, 40 cm long, 35 cm wide and 25 cm high, contained
	21 litres of water. What is the height of the water level in the tank?

Do not write in this column

_	
Ans:	^~
, and .	cn

30. Mrs Chua had just enough money to buy 4 kg of crabs and 3 kg of prawns. However, she bought 3 kg of crabs and 4 kg of prawns and had \$4.50 left. If she exchanged the 3 kg of crabs with 3 kg of prawns, how much money would she have left?

31. The pie chart shows the amount of money donated by four Primary Six classes. The total amount collected was \$500.

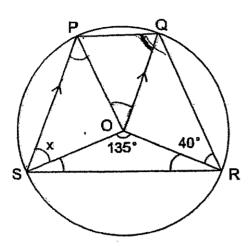


How much money was collected by Primary 6C?

		ı	
Ans:	\$		

32. In the figure, O is the centre of the circle and SP is parallel to OQ. Find  $\angle$  x .

Do not write In this column



Ans: _____

33. 8 workers can paint a block of flats in 12 hours. At this rate, how many workers are needed to paint the block of flats in 4 hours?

Ans: _____

4

34.	The ratio of the number of passengers in Train A to that in Train B is 3:2.
	When 80 passengers alighted from Train A, the ratio became 7 : 6.
	How many passengers remained in Train A?

Do not write In this column

Ans: _____

35. Mr. Tan had 200 apples and oranges.  $\frac{1}{3}$  of the apples and  $\frac{1}{4}$  of the oranges were rotten. He threw away 60 rotten fruits altogether. How many rotten oranges were there?

Ans:

____

Name :		(	).	Date :_	
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Class: Primary 6 SY / C / G / SE / P Duration: 2 h 15 min

Write your answers to questions 36 to 48 in the spaces provided. For each question, show your working clearly in the space provided. The number of marks available is shown in brackets at the end of each question or part-question.

36. (a) Jane is 4k years old. Her sister is 3 years older than her. Express their total age in terms of k.

Do not write In this column

(b) What is the ratio of Jane's age to her sister's when k = 9? (Express your answer in the simplest form.)

Ans: (a) _____(1)

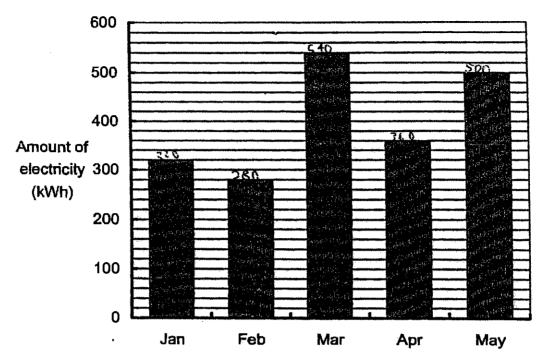
(b) _____(2)

37. A grocer packed 252 kg of rice into bags of 5-kg and 2-kg. He has an equal number of 5-kg bags and 2-kg bags of rice. How many bags of rice does he have in all?

Ans: _____(3)

38. The graph below shows the electricity consumption of the Chan family for 5 months.

Do not write in this column



(a) In which month was the electricity consumption  $\frac{2}{3}$  that of March?

(b) The electricity consumed is charged at the rate of 20 cents per kWh. How much did the Chan family pay for electricity from January to May?

Ans: (a) _____(1)

(b) _____ (2

39. (a) In the space below, draw a parallelogram ABCD in which AB = 8 cm, BC = 5 cm and  $\angle$  ABC = 120°. (2)

Do not write In this column

(b) Measure and write down the size of  $\angle$  DAB.

Ans: (b) _____(1)

40. Mavis and Janice have some beads each. If Mavis gives 30 beads to Janice, she will have 4 times as many beads as Janice. If she gives 150 beads to Janice, she will have 1 1/2 times as many beads as Janice.

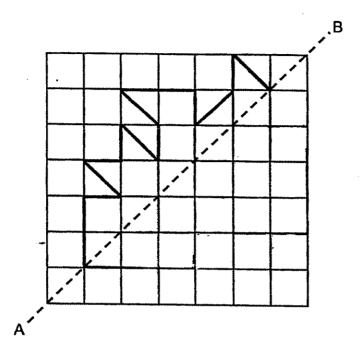
Find the number of beads Mavis has.

Ans:____(3)

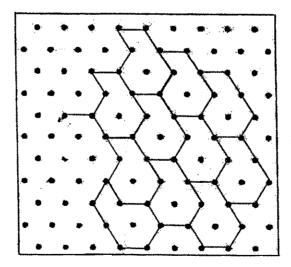
6

41 (a) Complete the following to form a symmetric figure about the line AB. (1)

Do not write in this column



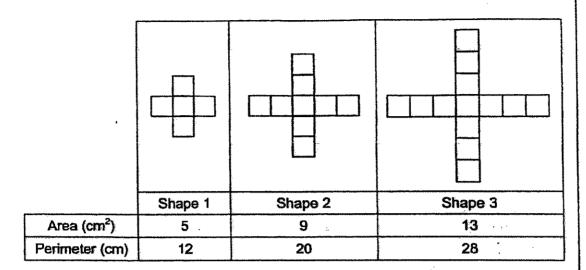
- 41 (b) i) Shade the unit shape that does not fit into the tessellation below.(1)
  - ii) Draw 2 more unit shapes to extend the tessellation in the grid provided.(1)



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42. The shapes in the table are made up of 1-cm squares. Study the pattern carefully and answer the questions that follow.

Do not write In this column



a) What is the perimeter of Shape 15?

b) What is the area of the shape when its perimeter is 172 cm?

Ans: (a) _____(2

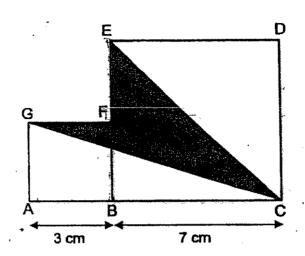
**(b)** _____(2)

43.	Alan and Bryan had \$480. Alan gave $\frac{2}{5}$ of his money to Bryan. In return, Bryan gave $\frac{3}{7}$ of his total amount to Alan. They then had the same amount of money. How much money did Alan have at first?	Do not write In this column
/		

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44. The figure is made up of a 3-cm square and a 7-cm square. Find the shaded area of the figure.

Do not write In this column



Ans: _____(4)

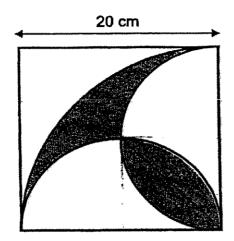
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45.	When Mrs Lee was 40 years old, her son was twice her daughter's age.  Mrs Lee will be twice her son's age when her daughter is 28 years old.  How old will Mrs Lee be when her daughter is 20 years old?	Do not write in this column
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46. The figure shows a square of side 20 cm enclosing a quarter circle and two semicircles. Find the total shaded area of the figure. (Take  $\pi=3.14$ )

Do not write In this column



Ans: _____(5)

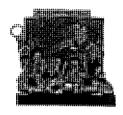
47.	At 7 a.m., Car A left Town X for Town Y while Car B left Town Y for Town X.  At 3 p.m., the two cars passed each other. 5 hours later, Car A reached  Town Y but Car B was still 150 km away from Town X.  Find the distance between Town X and Town Y.					
	Inditie distance between Town A and Town 4.					
	•					
		And the second s				
	Ans:(5)					

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48.	At an exhibition, the number of male visitors was 500 more than the number of female visitors on the first day. On the second day, the number of male visitors decreased by 10% but the number of female visitors increased by 15%. Given that there were 1680 visitors on the second day, how many female visitors were there on the second day?					
	•					
	•					

**END OF PAPER** 

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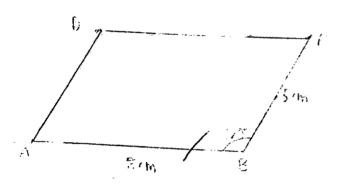


## ExamSutra 考试圣经

## Answer Sheets SCGS /Pri 6 SA2/2007 Maths

1)4	2)3	3)2	4)3	5)3	6)1
7)4	8)3	9)1	10)4	11)2	12)2
13)1	14)2	15)2	16)870499	17)20.076	$(18)\frac{4}{9}$
19)2600m	20)1kg 700g	21)52	22)30	23)130km/h	24)D
25)5:2	<b>26)</b> 0.025	2 <i>7)</i> \$4	28)20cm³	29) 15cm	30)\$18
31)\$200	32)55 ⁰	33)24	34)280	35)20	
36)a(8k+3)y	ears old	36)b.12:13	37)72 bags	38)a.April	38)b.\$400
39)a.			41)a.		

41)b.



39)b.60°

40)510 beads

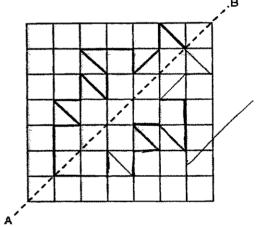
42)a.124cm 42)b.85cm²

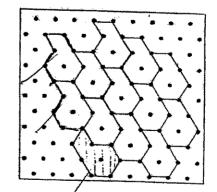
43)\$100 44)18.5cm²

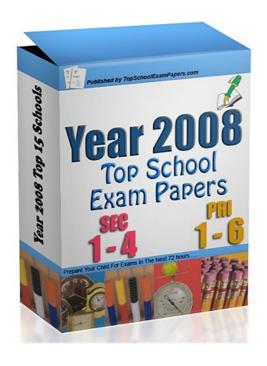
45)56 years old

46)114cm² 47)400km

48)690 female visitors







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