METHODIST GIRLS' SCHOOL (Primary) End-Of-Year Examination 2007 Primary 5

Mathematics

Booklet A

Name:			(
Class: P 5.					
Total time for Bo	ooklets A, I	B1 and B	2: 2h 15	min	
				· · · · · · · · · · · · · · · · · · ·	
DO NOT OPEN THIS	S BOOKLET	UNTIL YOU	J ARE TOL	D TO DO SC)
FOLLOW THE INST	RUCTIONS (CAREFULL	Υ.		
ANSWER ALL QUE	STIONS.				

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)

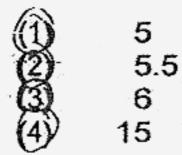
1. What is the missing number in the blank?

(1) 80 (2) 800 (3) 8 000 (4) 80 000

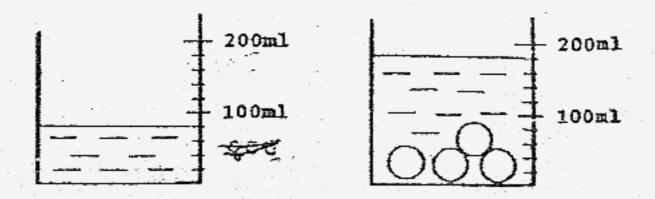
2. Evaluate $(92 - 68 \div 4) - 15 \times 3$

(1) 30 (2) 39 (3) 86 (4) 180

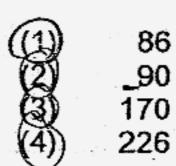
What is the average of all the even numbers from 1 to 10?



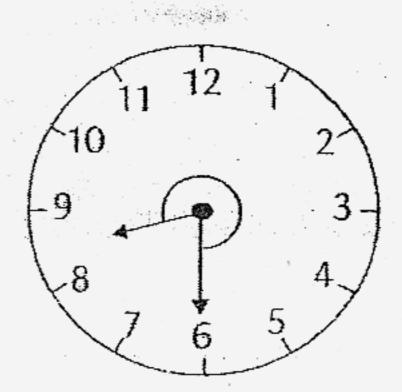
Janet poured some water into a beaker.
 She then added 4 identical marbles into it.
 Find the volume of 1 marble. (1ml = 1cm³)



(1) 25 cm³ (2) 80 cm³ (3) 100 cm³ (4) 180 cm³ A printer took 3 hours to print 270 copies.
 The same printer printed 160 copies in the next 2 hours.
 Find the average number of copies the printer printed in 1 hour.



6. The time shown below is 8.30 a.m. The larger angle formed by the hour and minute hands is between _____

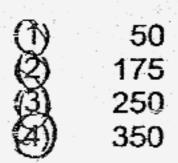


(M	0° and	90°
(2)	90° and	180°
(4)	180° and	270°
	270° and	360°

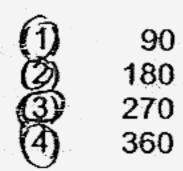
7. Lily has 60 stamps. Meiling has 24 more stamps than Lily.
The ratio of the number of stamps that Lily has to the number of stamps that Meiling has is ______

(1)	2:	5
	5:	2
	5:	7
(4) (4)	7:	5

8. Joanne reads an average of 25 pages of a book in 1 day. How many pages will she read in 2 weeks?

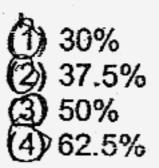


9. A machine can fill 450 bottles of soft drinks in 5 minutes. How many bottles of soft drinks can it fill in 3 minutes?

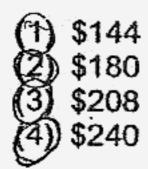


10. There were 15 girls and 25 boys in a club.

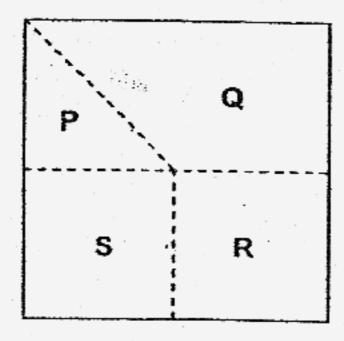
If 10 more girls joined the club, what percentage of the children in the club are girls?



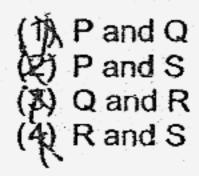
Janice has \$48. Hillary has \$16 more than Janice. Devi has twice as much money as Hillary. How much money do they have altogether?



12. The figure below is a square made up of four parts, P, Q, R and S. R and S are squares and each is $\frac{1}{4}$ of the figure.



Which of the following two parts will add up to $\frac{3}{8}$ of the figure?



Page 3 of 23

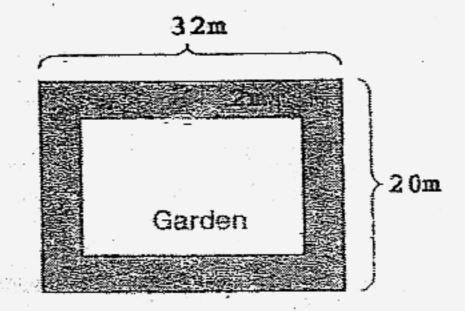
13. The table shows the parking charges at a car park.

Parking Charg	ges
For the first hour	\$2.00
For every additional $\frac{1}{2}$ hour	\$1.50

Mrs Lim parked her car from 9.00 a.m. to 11.30 a.m. How much did she pay?

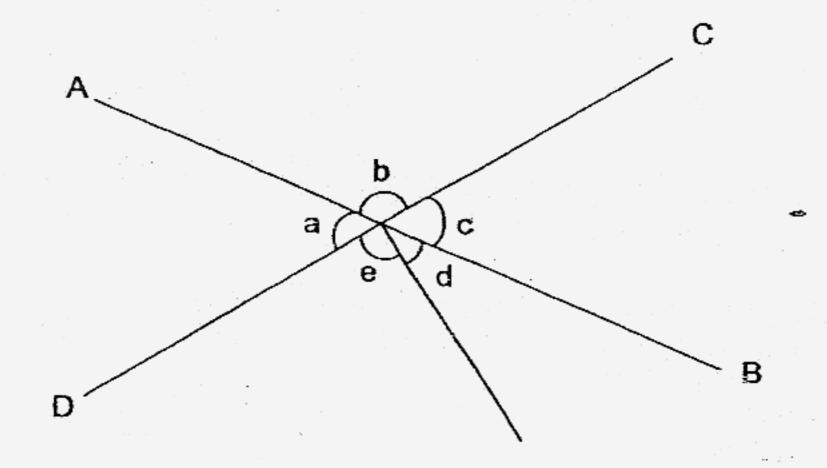
(1)	\$ 3.50
	\$ 5.50
(3)Y	\$ 6.00
(4)	\$ 6.50

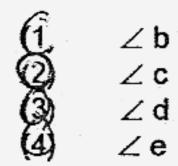
14. The garden below is surrounded by a 2-m footpath. Find the area of the garden.



(1) 448 m² (2) 540 m² (3) 600 m² (4) 640 m²

15. AB and CD are straight lines. Which angle is equal to ∠ a?





METHODIST GIRLS' SCHOOL (Primary) End-Of-Year Examination 2007 Primary 5

Mathematics

Booklet B1

Name:(Booklet B1 (30)
Class: P 5	DOORIEL DI (30)
Total time for Booklets A, B1 and B2: 2h 15 min	
DO NOT OPEN THIS BOOKLET UNTIL YOU	ARE TOLD TO DO SO.
FOLLOW THE INSTRUCTIONS CAREFULLY	•
ANSWER ALL 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)

16. What is seven million and sixteen thousand written in numerals?

Ans:	
WH2.	

 Use the following digits to form the smallest four-digit whole number that is divisible by 5.

3

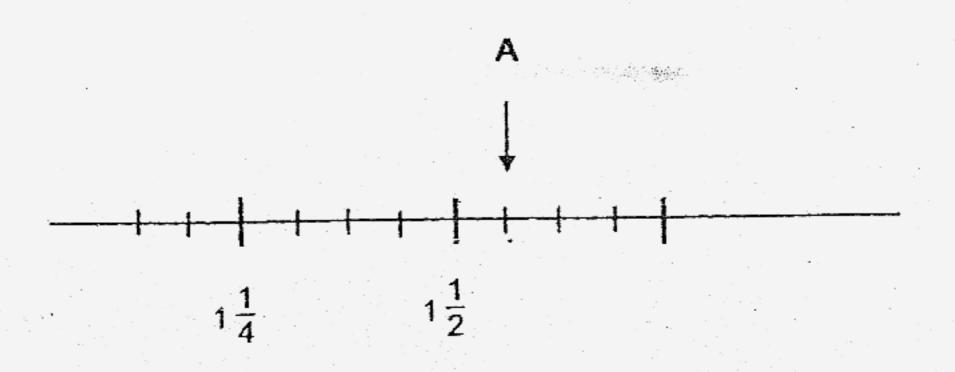
9

5

0

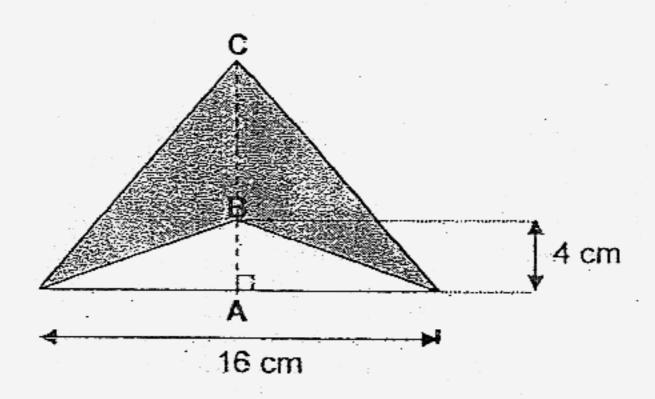
Ans: _____

18. What is the fraction represented by A?



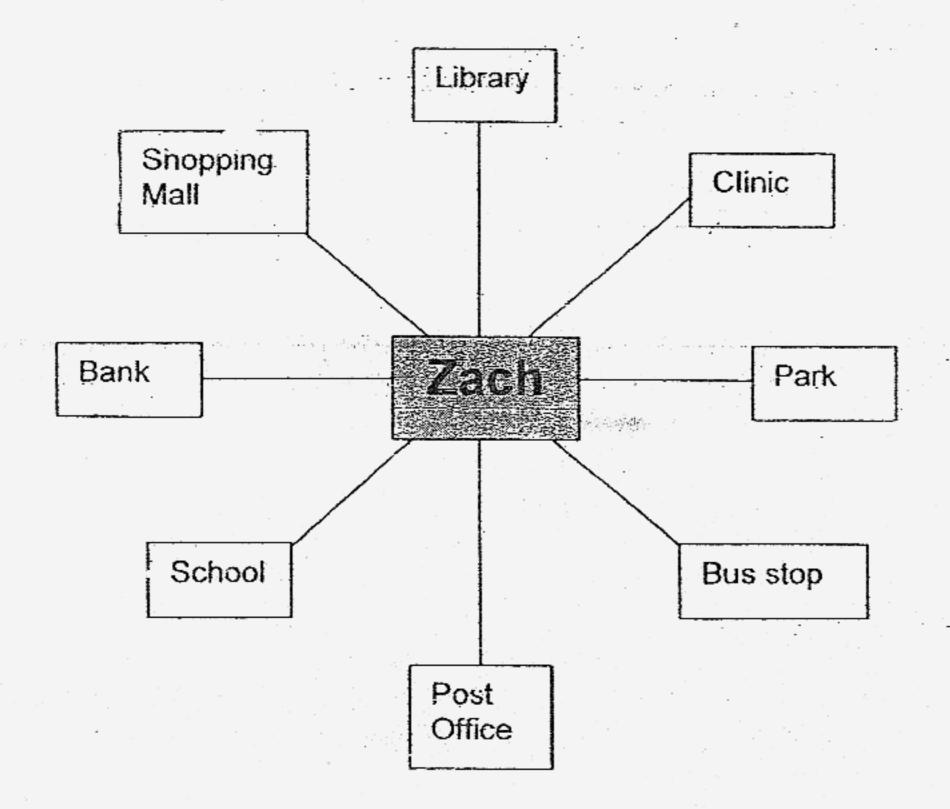
Ans:

The length of BC is twice that of AB.
 Find the area of the shaded region.



A		2
Ans:		em-

20. If Zach turns 225° anti-clockwise, he will be facing the Park. Where is he facing now?

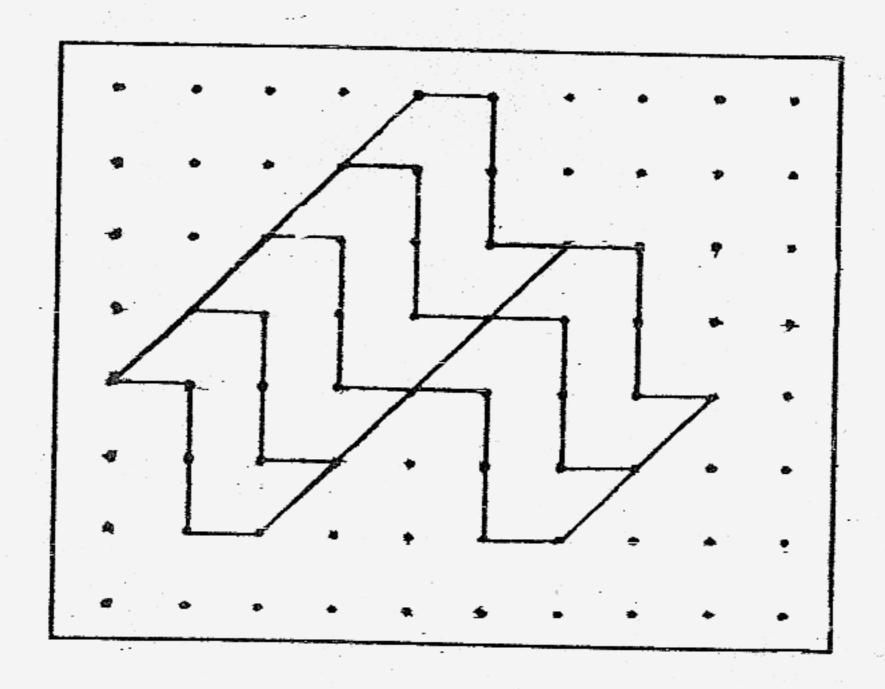


Ans:		
HU5.		

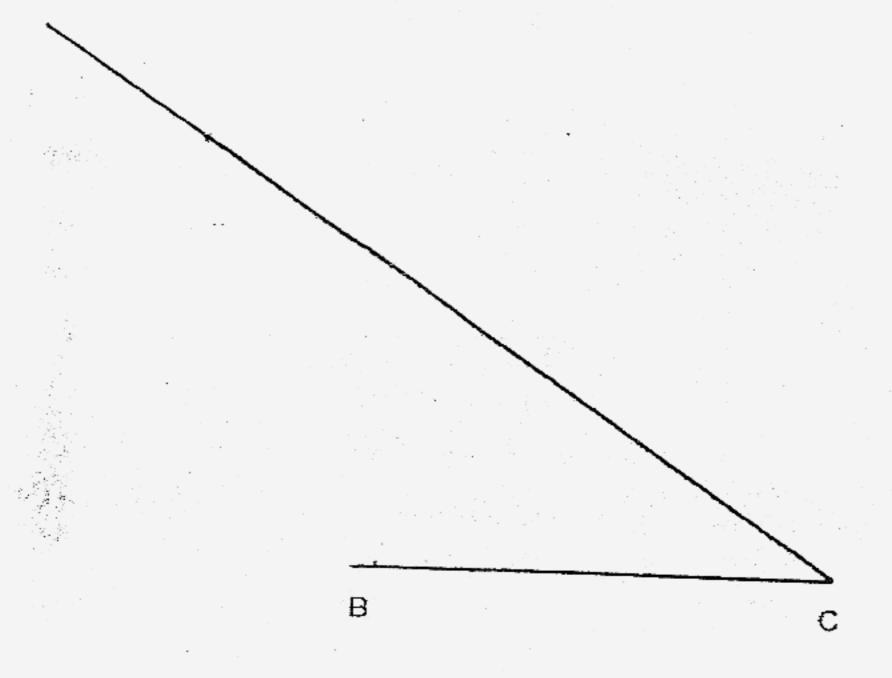
Page 7 of 23

The pattern in the box shows part of a tessellation.

Extend the tessellation by drawing two more unit shapes in the space provided in the box.



22. In the space below, draw triangle ABC in which ∠ ABC is 110°.



Page 8 of 23

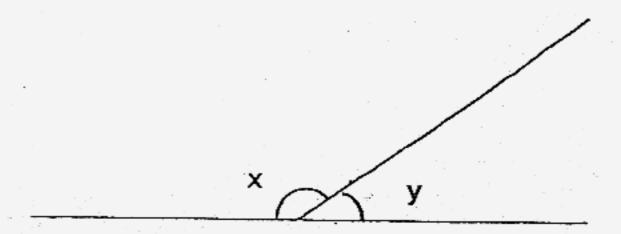
23. Divide 7.212 by 12.

Ans: _____

24. Three boys shared $\frac{6}{7}$ of a pizza. What fraction of the pizza did each boy get?

Ans:

25. The figure below is not drawn to scale.
∠ x is three times ∠ y.
Find ∠ x.



Ans: _____

Page 9 of 23

STAR ZEST HOME TUITION TEL 63845607

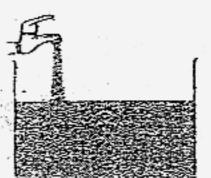
	Methodist Girls' School (Prim	Booklet B ary), P5 SA2 200
Questions 26 to 35 carry 2 marks each, Sh	now your working clearly in the spa	ace below each
question and write your answers in the spa give your answers in the units stated.	ices provided. For questions whic	h require units,
		(20 marks
Mrs Lim has some sweets for her considered of the she gives each pupil 3 sweets, she if she gives 5 sweets to each pupil, How many pupils are there in Mrs L	e will have 5 extra sweets. she will need 45 more sweets.	
		-
	Ans:	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
27 Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	
Mary is 12 years old and her mothe How many years later will Mary's m	r is 46 years old this year. other be 3 times as old as she?	

28. $\frac{1}{2}$ of a number is 48.

What is $\frac{7}{8}$ of the number?

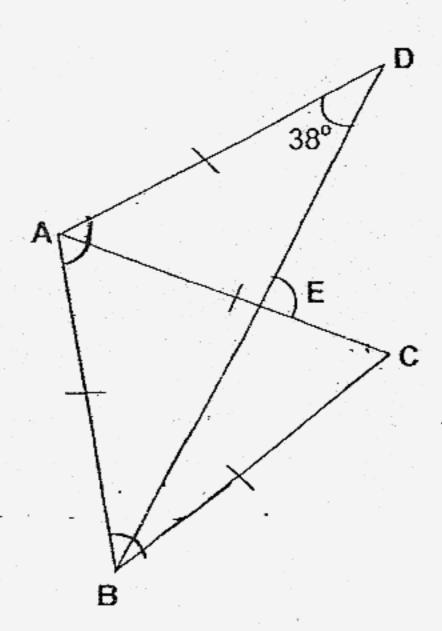
Ans:	
/ 11 1U.	
	_

29. A tap can fill $\frac{1}{4}$ of a tank in 6 minutes. How long will it take to fill 3 similar tanks?



-	•
Anai	mir
Ans:	1 5 1 1 1

30. ABC is an equilateral triangle and AC = AD. Find ∠ DEC.



Ans:	
AHO.	
	-

Page 11 of 23

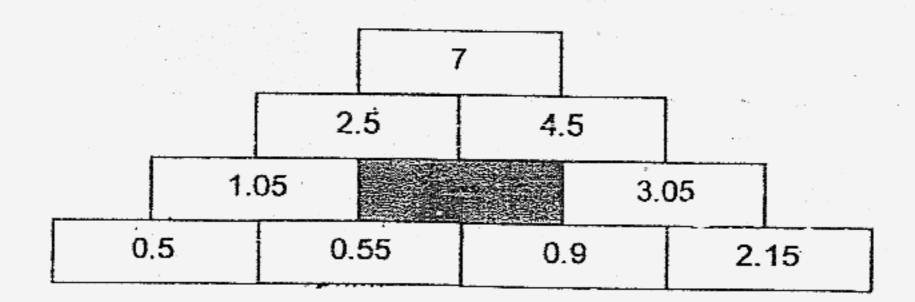
	Booklet B1
Methodist Girls' School (Primary),	P5 SA2 2007

The ratio of the number of Malay books to the number of Chinese books in a library is 1:4.

The ratio of the number of Chinese books to the number of English books is 2:5. How many books are there altogether if there are 270 more English books than Malay books in the library?

Ans:

32. What is the number in the shaded box?



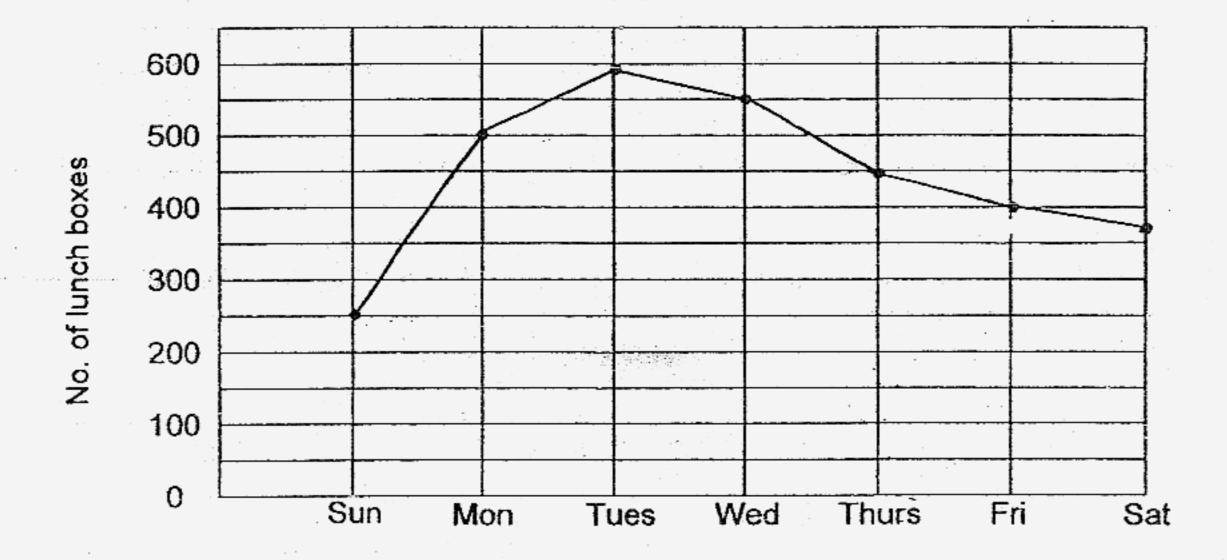
Ans:

33. After a 10% discount, the selling price of a watch was \$117. What would be the selling price if the discount had been 20% instead?

Ans: \$_____

The graph below shows the number of lunch boxes sold in a Japanese fast food shop in a week.

Study the graph carefully and answer questions 34 and 35.



34. On which day was the number of lunch boxes sold twice as many as the number sold on Sunday?

A		
Ans:		
,		

35. What would the total collection for Saturday be if each lunch box was sold at \$6.50?

Ans: \$ _____

METHODIST GIRLS' SCHOOL (Primary) End-Of-Year Examination 2007 Primary 5

Mathematics

Booklet B2

Name:()	Booklet A (20)
Class: P 5.	Booklet B1 (30)
Total time for Booklets A, B1 and B2: 2h 15 min	Booklet B2 (50) Total: (100)

FOLLOW THE INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

STAR ZEST HOME TUITION TEL 63845607

STAR ZEST HOME TUITION TEL 63845607

The r	uestions 36 to 48, show your wor tion and write your answers in the number of marks available is show rt-question.	spaces movided	1 ° 4
36.	Lina spent $\frac{1}{2}$ of her money to be	buy a dress and $\frac{1}{3}$ of the rem	naining amount to
	buy a bag. She then had \$56 le	eft. How much money did she	have at first?
			•
	- -		
		*	
		Ans:	[3]
		Ans:	[3]
7.	The ratio of Tom's money to Par After Tom spent \$140, the ratio How much money did Tom have	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] ney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] ney became 2:5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] ney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.
7.	After 1 om spent \$140, the ratio	ul's money was 4 : 3 at first. of Tom's money to Paul's mo	[3] oney became 2 : 5.

38. Siti spilled some coffee on her results slip. Her average mark for the three subjects is 86.

What can be the largest difference between her English and Mathematics marks?

Results	Slip
English	8
Mathematics	7
Science	9 2

Ans:	[3]
7 110.	 101

39. A car travels 36 km on 3 litres of petrol. The cost of petrol is \$1.60 per litre. How much does a motorist have to pay for petrol if he wants to travel 240 km?

	- ·	
Anc:		[3
Ans:		J

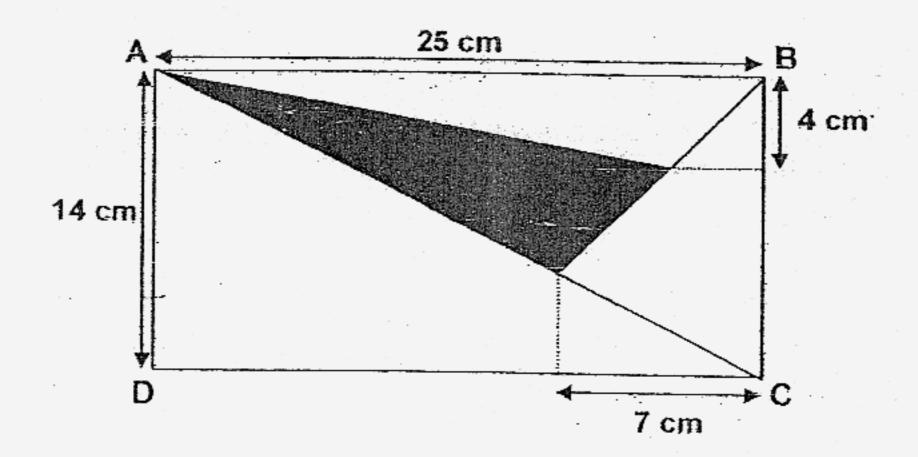
Page 15 of 23

Booklet B2 Methodist Girls' School (Primary), P5 SA2 2007

40. Lisa put 19 oranges in bag A, 24 oranges in bag B, 15 oranges in bag C and 80 oranges in bag D. Cindy added an equal number of apples into each of the bags. As a result, bag D contained the same number of fruits as the total number of fruit in bags A, B and C. How many apples did Cindy put into each bag?

Ans: _____[3]

41. ABCD is a rectangle. Find the area of the shaded part



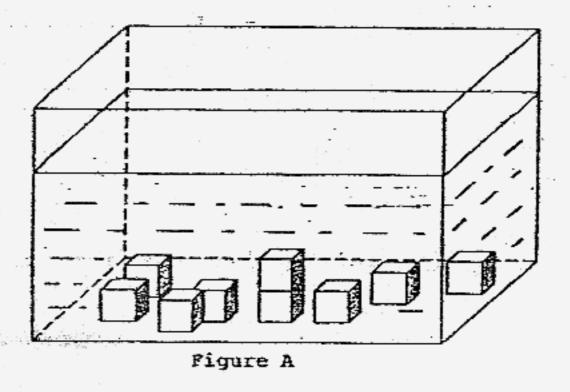
Ans: ____[4]

Page 16 of 23

	-		Booklet E	32
Methodist Girls	'School	(Primary),	P5 SA2 200)7

42. A tank measuring 30 cm by 20 cm by 27 cm contained 9.675 litres of water. When 9 cubes of the same size were placed into the tank, the water level rose to 2/3 the height of the tank (as shown in figure A).

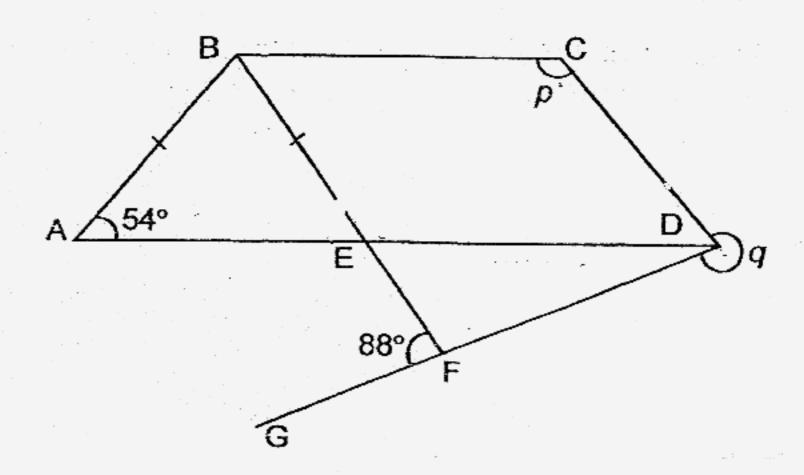
Find the length of each cube.



Ans. ____[4]

Page 17 of 23

The figure below is not drawn to scale. 43. BCDE is a parallelogram. AB = BE. AED, BEF and DFG are straight lines. Find $\angle p$ and $\angle q$.

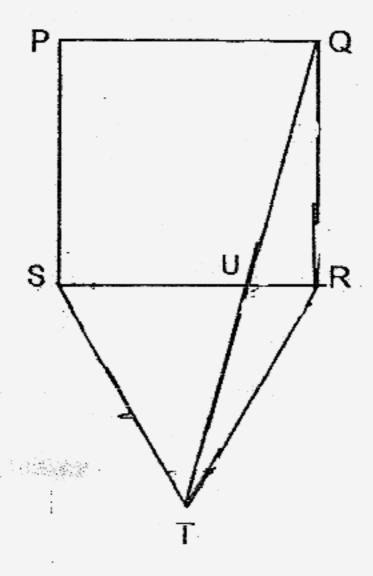


Page 18 of 23

Methodist Girls' School (Primary), P5 SA2 2007

44.

In the diagram below, not drawn to scale, PQRS is a square and RST is an equilateral triangle. Find ∠ QUR.



Ans:		-	 [4]

Page 19 of 23

STAR ZEST HOME TUITION TEL 63845607

		Booklet B2
Methodist Girls' School	(Primary),	P5 SA2 2007

45. Jie Min paid \$13.45 for some pencils and erasers. Each pencil cost \$0.65 and each eraser cost \$0.40 less. How many pieces of erasers did she buy if there were 11 more pencils than erasers?

Ans:	[4]
,	r . 1

Page 20 of 23

STAR ZEST HOME TUITION TEL 63845607

		Booklet B2
Methodist Girls' School	(Primary),	P5 SA2 2007

46. The price of tickets to a concert is shown below.

Adult \$25 Child \$11

A group of 85 people paid a total of \$1 355 to attend the concert. How many children attended the concert?

Ans:	[5]
,	101

Page 21 of 23

	Booklet B2
Methodist Girls' School	(Primary), P5 SA2 2007

Sandy had some sweets. She kept $\frac{1}{2}$ of the sweets plus 7 sweets. 47. She then gave the remaining sweets to Betty. Betty kept $\frac{1}{2}$ of her sweets plus 8 sweets and gave the remainder to Pauline. Pauline ate $\frac{1}{4}$ of her share and found that she had 15 sweets left.

- (a) How many sweets did Pauline have?(b) How many sweets did Sandy have at first?

Ans: a)	[2]
b)	[3

Page 22 of 23

Free gifts were being given out at a departmental store.
10% of the gifts were claimed on Wednesday.
The number of gifts claimed on Thursday was 6 more than the gifts claimed on Wednesday.

The number of gifts claimed on Friday was $\frac{2}{3}$ of those claimed on Saturday.

 $\frac{4}{25}$ of the gifts were claimed on Sunday.

If 54 gifts were claimed on Saturday, how many free gifts were claimed in total?

Ans: [5]

☆ End of Paper ☆
Please check your work.

Page 23 of 23

Methodist Girls' Primary School

Primary 5 Maths SA2 Exam (2007)

Ansiver Keys -- -

Q1	Q2	Q3	Q4	Q5
2	1	3	1, ,	1
Q6	Q7	Q8	Q9	- Q10
4	3	4	3	3
Q11	Q12	Q13	Q14	Q15
4	2	4	1	2

16. 7016000

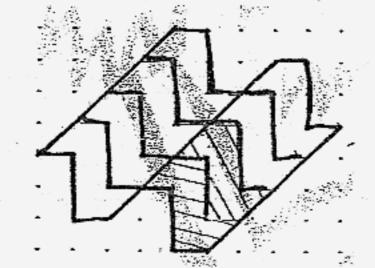
17. 3095

18. $1\frac{9}{16}$

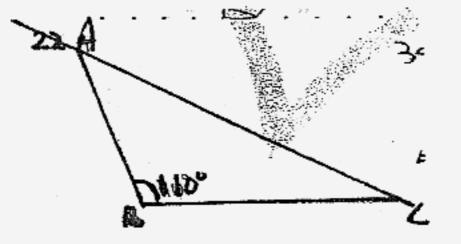
19. 64cm²

20. shopping mall

21.



22.



23. 0.601

24. $\frac{2}{7}$

25. 135°

26. 25 pupils

27. 5 years

28. 84

29. 72 mins

Page 1 of 4

STAR ZEST HOME TUITION TEL 63845607

30. 82°

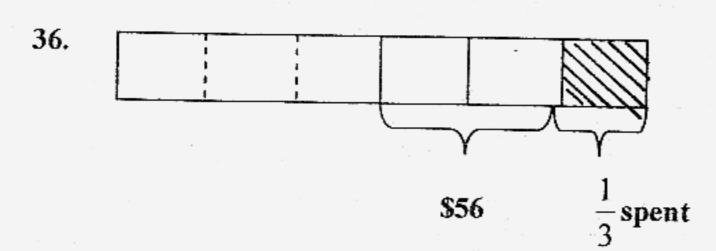
31. 450 books

32. 1.45

32. \$104

34. Monday

35. \$2437.50



37. Tom: Paul
4: 3
x 5 x 5
20: 15

Tom: Paul
2:5
x3 x3
6:15

- 38. Total marks = 86 x 3 = 258 258 - 92 = 166 If 166 = 89 (English) + 77 (Maths) = 89 - 72 = 12
- 39. $36 \div 3 = 12 \text{km}$ 1L = 12 km $\frac{240}{12} \times \$1.60 = \32
- 40. Let A be the no. of apples (19 + A) + (24 + A) + (15 + A) = 80 + A 3A + 58 = 80 + A 3A A = 80 58 2A = 22 A = 11

Page 2 of 4

41. Area of rect. =
$$45 \times 14$$

= 250cm^2

Area of A =
$$\frac{14}{2}$$
 x 25 = 175cm²

Area of B =
$$\frac{14}{2}$$
 x 7 = 49cm²

Area of C =
$$\frac{25}{2}$$
 x 4 = 50cm²

Area of shaded part =
$$350 - (175 + 49 + 50)$$
cm²
= 76 cm²

42.
$$\frac{2}{3}$$
 x 27 = 18

Vol. of water and cubes $= 30 \times 20 \times 18 = 10800$

Vol. of cubes = 10800 - 9675 = 1125

Vol. of 1 cube = $1125 \div 9 = 125$

 $5 \times 5 \times 5 = 125$

The length is 5cm

43.
$$\angle P = 180^{\circ} - 54^{\circ} = 126^{\circ}$$

$$\angle P = 126^{\circ}$$

$$\angle CDF = 88^{\circ}$$

$$\angle q = 360^{\circ} - 88^{\circ}$$

= 272°

44.
$$(90 + 60)^{\circ} = 150^{\circ}$$

$$(180 - 150)^{\circ} = 30^{\circ}$$

$$30^{\circ} \div 2 = 15^{\circ}$$

$$(90 - 15)^{\circ} = 75^{\circ}$$

The angle is 75°

45. Pencil =
$$$0.65$$

$$Eraser = \$0.25$$

$$\$0.65 \times 11 = \$7.15$$

$$\$(13.45 - 7.15) = \$6.30$$

$$\$(0.25 + 0.65) = \$0.90$$

$$630 \div 90 = 7$$

There are 7 erasers.

46. 85 x 11 = 935

$$1355 - 935 = 420$$

 $25 - 11 = 14$
 $420 \div 14 = 30$
 $85 - 30 = 55$
55 children paid to watch the concert.

47a.
$$15 \div 3 = 5$$

 $5 \times 4 = 20$
Pauline had 20 sweets

47b.
$$20 + 8 = 28$$

 $28 \times 2 = 56$
 $56 + 7 = 63$
 $63 \times 2 = 126$
Sandy had 126 sweets.

48. Wed =
$$10\%$$

Thurs = $10\% + 6$
Fri = $\frac{2}{3} \times 54 = 36$
Sat = 54
Sun = 16%
 $(100 - 10 - 10 - 16)\% = 64\%$
 $64\% = 6 + 36 + 54 = 96$
 $1\% = 1.5\%$
 $100\% = 150$
 150 gifts were claimed.