Name:	<u> </u>	Date:
Class: Primary 5(SY)/C/G/SE/P		Time: 2 h 15 min
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SINGAPORE CHINESE GIRLS' SCHOOL SECOND SEMESTRAL ASSESSMENT 2007

PRIMARY 5

MATHEMATICS

BOOKLET A

15 Questions

25 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.

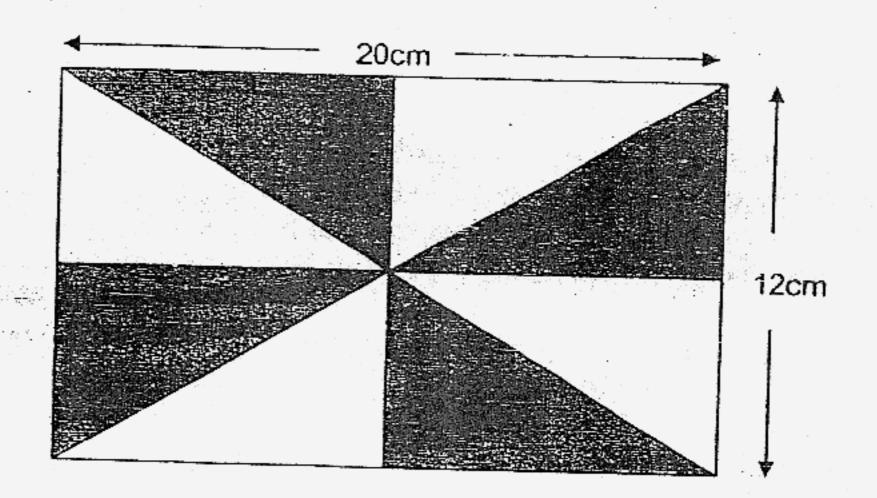
ANSWER ALL QUESTIONS.

Name : ()	Date :
Class : Primary 5 SY/C/G/SE/P		Time : 2 h 15 min

Booklet A (20 marks)

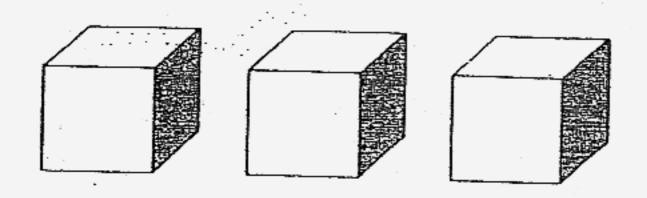
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- 1. Write in figures 600 thousands, 40 hundreds and 15 tens.
 - (1) 600 415
 - (2) 604 150
 - (3) 640 150
 - (4) 641 500
- 2. Arrange the following in ascending order $\frac{11}{12}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{5}{6}$
 - (1) $\frac{11}{12}$, $\frac{5}{6}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{3}$
 - (2) $\frac{11}{12}$, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{1}{3}$, $\frac{1}{2}$
 - (3) $\frac{1}{3}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{11}{12}$
 - (4) $\frac{1}{3}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{11}{12}$, $\frac{5}{6}$
- 3. Divide 89.16 by 3.
 - (1) 297.2
 - (2) 29.92
 - (3) 29.72
 - (4) 27:72



- The above figure is made up of 8 identical triangles. 4. What is the shaded area of the figure?
 - (1) 30 cm² (2) 60 cm²

 - (3) 120 cm²
 - (4) 240 cm²
- What is the total volume of the three 6-cm cubes?



- (1) 36 cm³
- (2) 108 cm³ (3) 218 cm³ (4) 648 cm³
- A carpenter saw a plank 6.48 m long into 3 equal pieces. What was the length of 6. each piece of plank?
 - (1) 2.16 cm
 - 2.03 m
 - 213 cm
 - 2.16 m

- 7. Through how many right angles does the minute hand turn in one hour?
 - (1) 1
 - (2) 2
 - (3) 6
 - (4) 4
- 8. The average mass of five boys is 52 kg. The first 4 boys have a mass of 43 kg, 60 kg, 55 kg and 49 kg respectively. What is the mass of the fifth boy?
 - (1) 52 kg
 - (2) 53 kg
 - (3) 57 kg
 - (4) 63 kg
- 9. The ratio of the amount of orange syrup to the amount of water used in making an orange drink is 3:7. If 900ml of orange syrup was used, how much water was used?
 - (1) 300 ml
 - (2) 450 ml
 - (3) 630 ml
 - (4) 2100 ml
 - 10. Express $\frac{1}{20}$ as a percentage.
 - (1) 5%
 - (2) 10%
 - (3) 15%
 - (4) 20%
 - 11. Jessie is 12 years younger then her cousin. In 2 years' time, her cousin will be 30 years old. How old is Jessie now?

(1) 16 years old (2) 18 years old

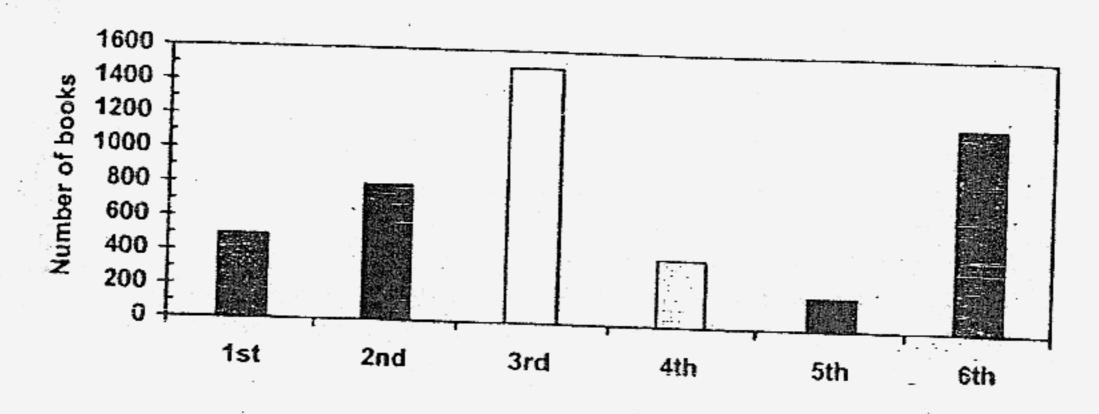
(3) 20 years old

(4) 26 years old

\$19-35 12. 9 mangoes cost \$24.30. How much do ≇mangoes cost?

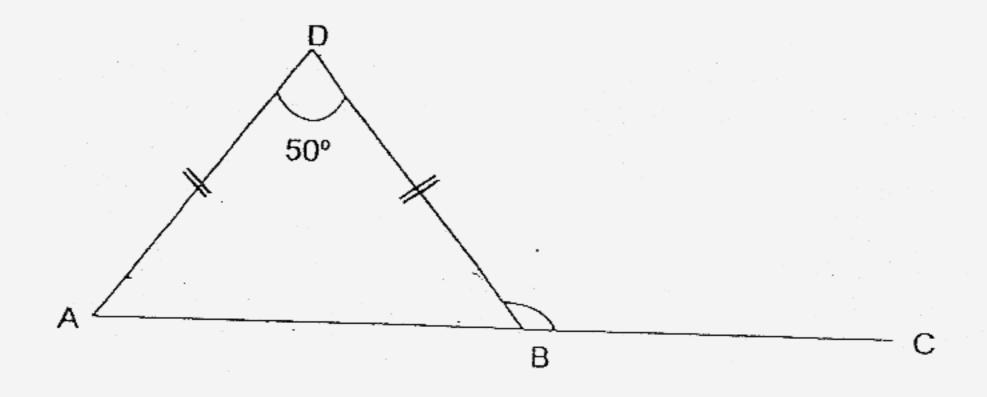
(1) \$2.70 (2) \$17.20 (3) \$17.90 (4) \$218.70

13. The line graph shows the total number of books sold in the first 6 days of its launch.



In which day did the number of books sold decrease the most, when compared to the previous day?

- (1) 1st day
- (2) 4th day
- (3) 5th day
- (4) 6th day
- 14. The diagram below is not drawn to scale. ABD is an isosceles triangle and ABC is a straight line. Find ∠ DBC.



- (1) 65°
- (2) 115°
- (3) 130°
- (4) 140°

15. Mr Chong and his family ordered dishes at a restaurant which amounted to \$210 in all. The restaurant charges 10% service charge and 7% GST. How much did Mr Chong pay for the meal?

(2) \$224.70 (2) \$231.00 (3) \$245.70 (4) \$247.80

Name	e:	()	Date :	
Class : Primary 5 SY/C/G/SE/P			Time: 2 h 15 min	
Book	(let B (80 marks)			-
For e	tions 16 to 25 carry 1 mark each. Quach question, write your answer in the your answers in the units stated.	uestions 26 to 35 le space provided	carry 2 marks each.	Do not write In this column
16.	Find the value of $60 - 15 \div 5 \times 2$.			
	-			
			Ans:	
17.	Express $1\frac{2}{3}$ in decimals. (Rounde	d off your answer	to two decimal places)	
		•	Ans:	
18.	What fraction of \$45 is \$3?			
			Ans:	3

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19.	Given	that the vol	lume of the	solid is 249	6 cm ³ , find t	he height	of the solid
		13cm				? heigh	ŧ
		4	— 16cm -	•	•		•
							-
	والمستعدد والمستعدد						
					An	is:	cn
20.	TOTAL DOLL	uch will she	i i uesdav is	: IWICA tha	Tuesday. if amount sold she sold 15	an Allandii	
					P		
			-				
					Ans	:k	gg
21.	What is	the area of	shaded the triangle	?			
-		1cn	71				
	4 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	→	<u> </u>		<u> </u>		
		1cm					

Do not write In this column

Ans: _

Draw a line perpendicular to line AB that passes through point X. 22. Do not write In this column 23. Find the value of \angle a. 50° Ans: _ 24. A fruit seller peeled 6 oranges in 3 minutes. What is the average number of oranges she peeled in a minute?

Ans:

25.	Aini gave 35% of her marbles to Bala. What fraction of her marbles had she left?	
		Do not write In this column
	Ans:	
spac	stions 26 to 35 carry 2 marks each. Show your working clearly in the se below each question and write your answers in the spaces provided questions which require units, give your answers in the units stated	
26.	Mrs Wong spent half of her money on a handbag and the rest on 4 similar purses. If each purse cost \$22, how much did she have at first?	
	Ans: \$	_
27.	Mr Wu spent 1 h 20 min to wash his car and then another 55 min to polish it. If he finished cleaning his car at 11.35am, at what time did he start cleaning his car?	
٠.		
	Ans:	5

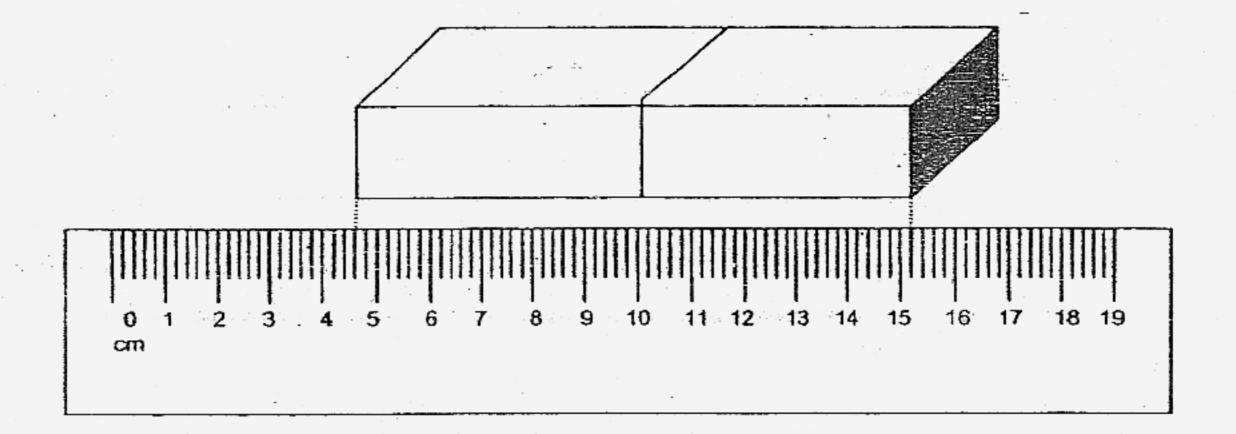
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28. A water bottle costs \$16.20. A plastic bowl costs $\frac{1}{10}$ as much as a water bottle. What is the total cost of a water bottle and a plastic bowl?

Do not write In this column

Ans: \$_

29. What is the length of the eraser?

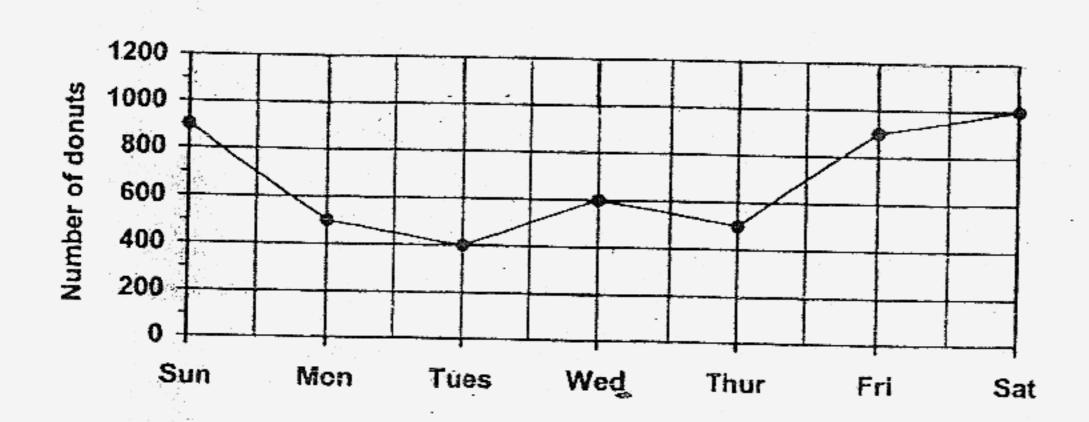


Ans: ____cm

/4

30. The line graph shows the sales of donuts at a donut factory in one week. Study the graph carefully.

Do not write In this column

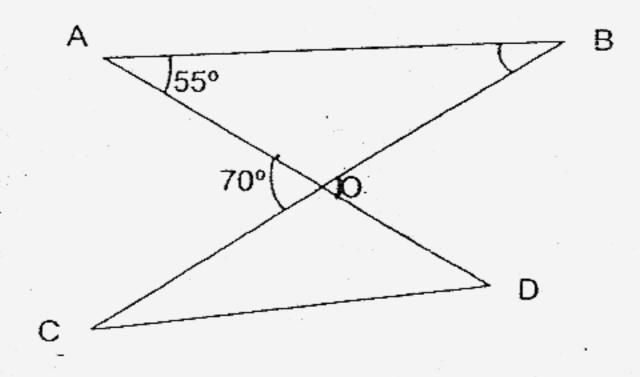


- (a) What is the difference between the most number of donuts sold in a day, and the least number of donuts sold in a day?
- (b) What was the average number of donuts sold-for that week?

Ans: (a)_____

(b)____

31. In the figure not drawn to scale, AD and BC are straight lines. Find ∠ABO.



Ans:

32.	A pail with a capacity of 5.25 <i>l</i> is put under a dripping tap. After 20 minutes, the pail becomes half filled. At what rate is water dripping	Do not write In this colu
	from the tap? (Give your answers in l / hr)	
٠.	Ans:1 / hr	
33.	Mr Raju can make an average of 20 roti pratas in 15 minutes. His assistant can make 1 prata per minute. At these rates, how long does it take them to make 140 pratas if they start making the pratas at the same time?	·
		-
		· ·
	Ans:	
	cost in the ratio 5 : 4 : 1 respectively. If Harry paid \$36 more than Neville, how much did the computer games cost?	
	Ans:	
35.	Deborah bought a refrigerator at a discount of 30%. She paid \$621.60 for it. What is the original price of the refrigerator?	
	Ans:	8

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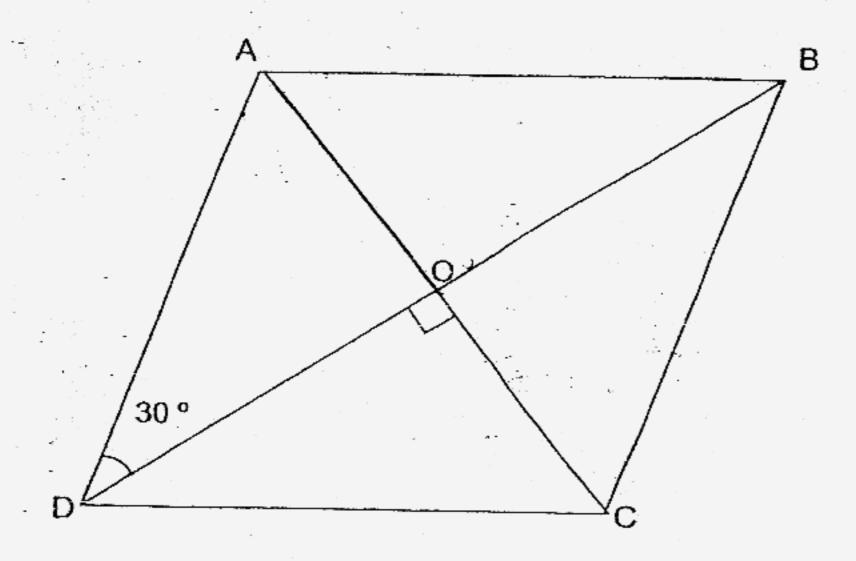
ame:		_() Date :_		
lass : Primary 5 6	Y)C/G/SE/P	Time:	2 h 15 min	
now your working o	to questions 36 to 48 in the clearly in the space provide t the end of each question	d. The number of mark	each question,	not wri this colu
6. Linette bough	nt 2 dolls and 5 books for \$	154. Each doll cost 3	imes as	
much as a bo	ook.			
(a) Find the p	orice of a doll.	•		
(b) Find the o	difference in price between	a doll and a book.		
	-es			
•				
	•			
		Ans: (a)_	(2)	•
. · · · · · · · · · · · · · · · · · · ·		(b)	(1)	
		(5)_		
	t- Anna Dostrice and Cali	eta sharod a roll of ribb	one	
•	is, Anna, Beatrice and Calibrate was $\frac{1}{4}$ of the total length		1	
Beatrice's	s share was $\frac{2}{3}$ of the total	ength of Anna's and C	alista's ribbons.	
If Anna's	share of ribbons is 45cm le	ess than Beatrice's sha	re, what is the	
total leng	gth of the roll of ribbons?			
		ALLM SELECTION OF THE S		
•				
		Ans:	(3)	
				6

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38.	Figure ABCD is a rhombus.	AC and BD are straight lines. AC = 1	10cm,
	BD = 14cm.		

Do not write In this column

- (a) Find ∠ OAD. (1m)
- (b) Find the area of triangle DOC. (3m)



Ans: (a)_____6

(b)_____cm²

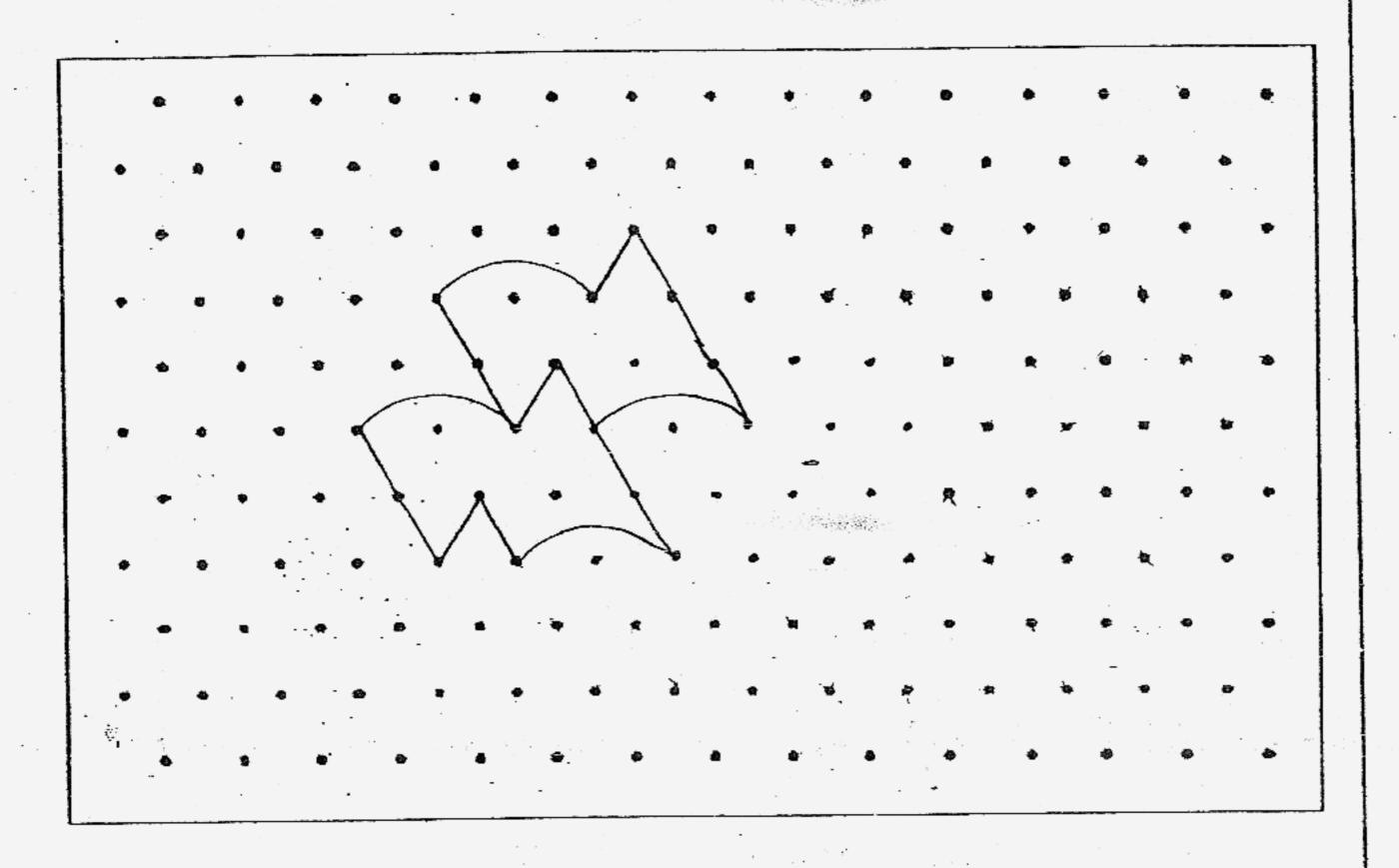
The mass of a basket of lychees was 27 kg. Some pineapples that were placed in a similar basket had a mass of 21 kg. The mass of the pineapples was $\frac{3}{4}$ the mass of the lychees. Find the mass of the empty basket.

Ans: _____kg (3)

40. (a) Shade a unit shape of the tessellation. (1)

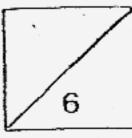
(b) Extend 4 more unit shapes (2)

Do not write In this column



41. Shelley saved 10% of her monthly salary and spent 20% of the remainder on room rental every month. If she spent \$4320 on room rental a year, how much does she earn in a month?

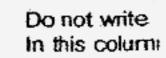
Ans: _____(3)

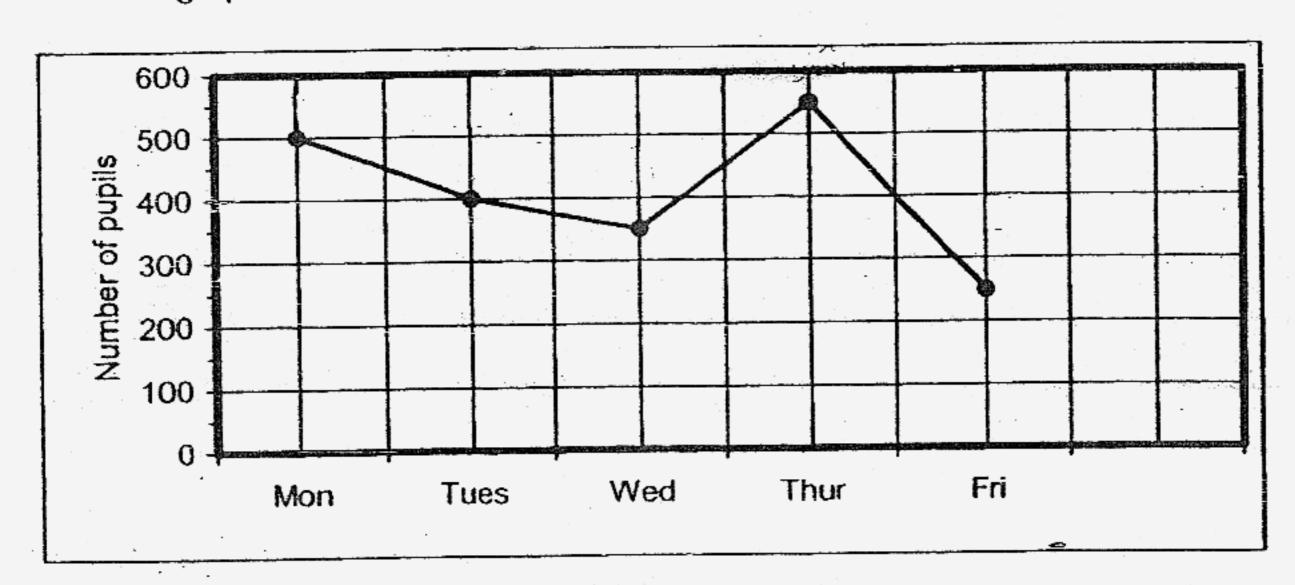


42.	5	the capacity of a can hold 0.751	lug, what is the	ip a fish tank. Th capacity of the fi	e capacity of a sh tank given	Do not wri In this colu
· · · ;				٠. ٠.		
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44	gás)					
*						
				Ans:	(4)	

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43. The graph shows the number of pupils who visited a canteen stall in a week.





- (a) What was the difference between the greatest number and the smallest number of pupils who visited the stall?
- (b) On which day was the number of pupils who visited the stall $\frac{4}{5}$ of the number of pupils who visited the stall on Monday.?
- (c) What is the average number of pupils who visited the stall per day?

Ans: (a)______(1'm)

(b):_____(1㎡)

(c)____(2m)

44(a)	Construct a triangle ABC such that AB = 7 cm, BC = 5 cm and
	$\angle ABC = 60^{\circ}$ (2)

Do not write In this column

44(b) Given that AB is the base of the triangle, draw and measure the height of the triangle ABC. (2)

Ans: (b) _____cm

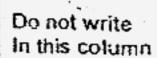
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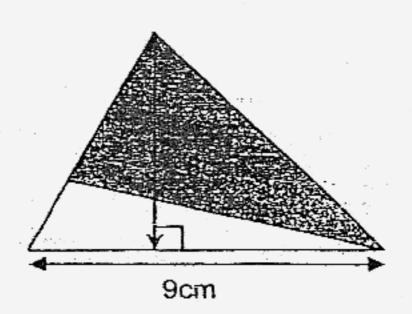
STAR ZEST HOME TUITION TEL 63845607 Rachel bought 4 times as many key chains as pencil cases. She spent 5. Do not write \$180.90 in total and \$56.70 more on key chains than the pencil cases. In this column The pencil cases cost \$1.20 more than the keychains. Find the cost of a ky chain.

Ans: ____(5)

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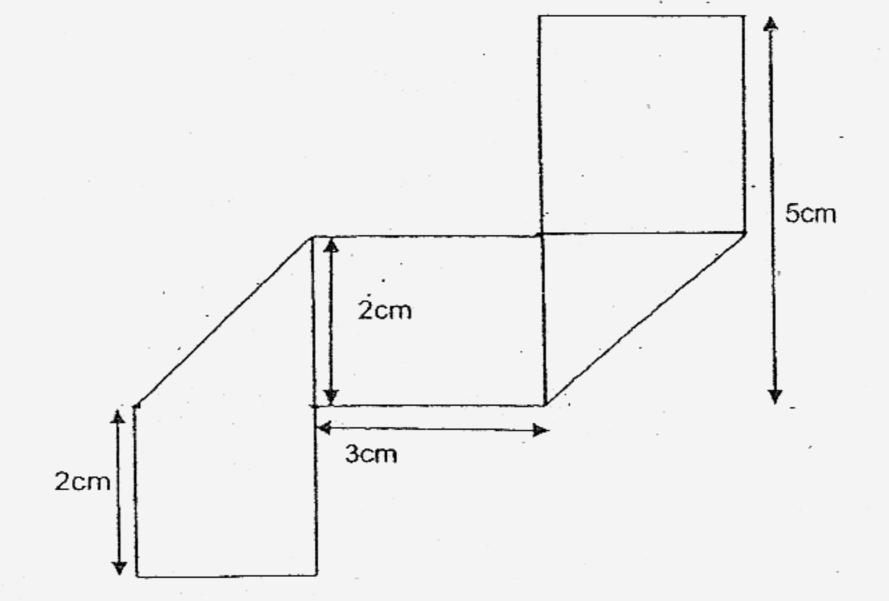
46. (a) The ratio of the shaded area to the unshaded area is 7:2. Find the area of the unshaded area.





Ans: ((a)	(2)

(b) A strip of rectangular paper was folded as shown below. Find the perimeter and area of the strip of paper.

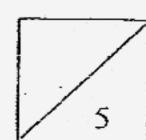


Ans: Perimeter:	(2)
Araa:	- (1)

47.	A rectangular tank with a base measuring 20 cm long and 16 cm wide, with water. A tap fills the tank up at a rate of 20 ml per minute. If it takes	Do Int
	$5\frac{1}{3}$ hour for the tank to be filled to the brim, what was the height of the	***

Do not write In this column

Ans:	((5



There were some red, blue and white balls in a box. After 10 red balls and 5 blue balls were removed from the box, the ratio of red to blue balls was 4:9. When 16 more white balls were added in the box, the ratio of blue to white balls was 3:4. If there were 44 white balls at first, what was the ratio of red, to blue, to white balls at first?

Do not write In this column

Ans:	 (5)

END OF PAPER PLEASE CHECK YOUR WORK

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SCGS Primary School

Primary 5 Maths SA2 Exam (2007)

Answer Keys

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

16. 54

17. 1.67

18. $\frac{2}{15}$

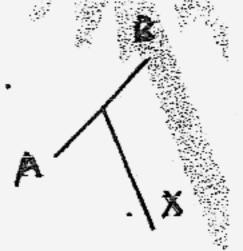
19. 12cm

20. 2kg 250g

21. 15cm²

22.

23. 40°



24. 2

25. $\frac{13}{20}$

26. \$176

27. 9.20am

28. \$17.82

29. 10.6cm

30a. Most = 1000 Least = 400

Different = 1000 - 400 = 600

30b. Total = 500 + 400 + 600 + 500 + 900 + 1000= 3900Average = $3900 \div 6 = 650$

31.
$$\angle x = 70^{\circ}$$

 $\angle y = (360^{\circ} - 70^{\circ} - 70^{\circ}) \div 2$
 $= 110^{\circ}$
 $\angle ABO = 180^{\circ} - 110^{\circ} - 55^{\circ} = 15^{\circ}$

36a.
$$1u = $154 \div 11 = $14$$

 $3u = $14 \times 3 = 42 (Doll)

38a.
$$\angle x = 180^{\circ} - 90^{\circ} - 30^{\circ} = 60^{\circ}$$

 $\angle y = (360^{\circ} - 90^{\circ} - 90)^{\circ} \div 2$
 $= 90^{\circ}$
 $\angle OAD = 180^{\circ} - 90^{\circ} - 30^{\circ} = 60^{\circ}$

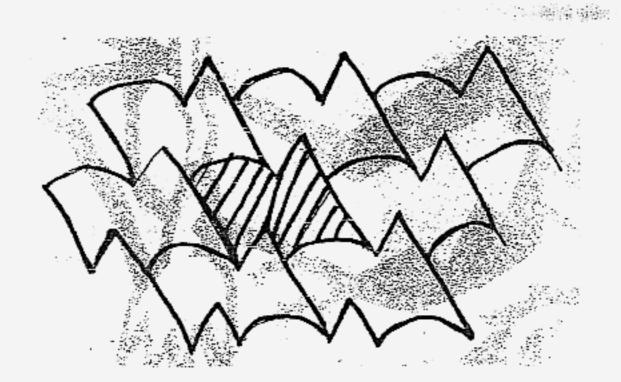
38b. OC =
$$10\text{cm} \div 2 = 5\text{cm}$$

OD = $14\text{cm} \div 2 = 7\text{cm}$
Area of DOC = $\frac{1}{2} \times 5 \times 7 = 17.5\text{cm}^2$

39.
$$1u = 27kg - 21kg = 6kg$$

 $3u = 18kg$
 $Basket = (21 - 18)kg$
 $= 3kg$

40.



42.
$$\frac{5}{5}$$
 mug = 0.75 ℓ
 $\frac{1}{5}$ mug = 0.75 ℓ ÷ 5 = 0.15 ℓ
3 jugs = 0.75 ℓ x 3 = 2.25 ℓ
8 mugs = 0.15 ℓ x 8 = 1.20 ℓ
Capacity of fish tank = 1.20 ℓ + 2.25 ℓ = 3.45 ℓ

43b.
$$\frac{5}{5} = 500$$

$$\frac{1}{5} = 100$$

$$\frac{4}{5} = 400$$

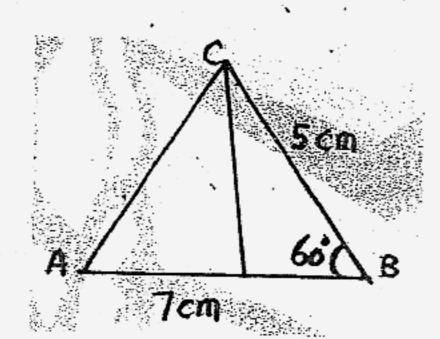
$$400 = \text{Tuesday}$$

43c. Total =
$$500 + 400 + 350 + 550 + 250 = 2050$$

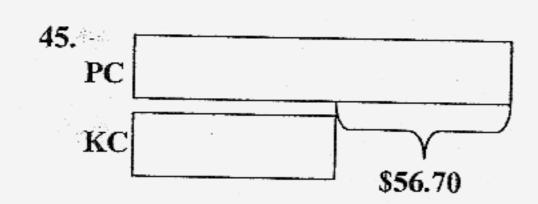
Average = $2050 \div 5$
= 410

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44a.



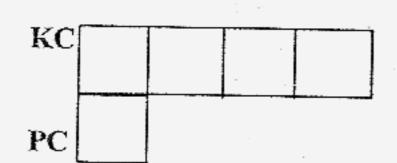
44b. 4.4cm



Total cost of KC =
$$\$(180.90 - 56.70) \div 2$$

= $\$62.10 + \56.70
= $\$118.80$

Every PC equals 4 KC



4u of KC = \$118.80 1u of KC = \$ 29.70 1u of PC = \$ 62.10 Different = \$62.10 - \$29.70 = \$32.40 No. of sets = \$32.40 \div \$1.20 = 27 1 PC = \$62.10 \div 27 = \$2.30 1 KC = \$2.30 - \$1.20 = \$1.10

46a. Whole triangle =
$$\frac{1}{2} \times 8 \times 9 = 36 \text{cm}^2$$

$$1u = 36 \div 9 = 4cm^2$$

Unshaded = 4 x 2 = 8cm²

46b. Length =
$$5 + 5 + 2 = 12$$

Breadth = $2cm$
Perimeter = $12 + 12 + 2 + 2 = 28cm$
Area = $12 \times 2 = 24cm^2$

47.
$$5\frac{1}{3}$$
 hrs = 320mins

Filled up = 320mins x 20mt = 6400mt

Height of tank = $\frac{6400}{20}$ x 16 = 20cm