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

SINGAPORE CHINESE GIRLS' SCHOOL SECOND SEMESTRAL ASSESSMENT 2007 PRIMARY 5

BOOKLET A

MATHEMATICS

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 :
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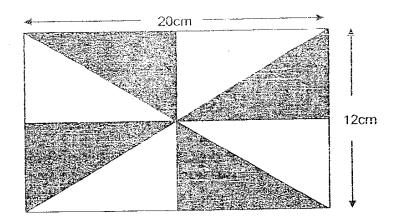
Class: Primary 5 SY/C/G/SE/P

Time: 2 h 15 min

Booklet A (20 marks)

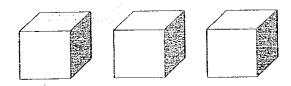
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- 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?

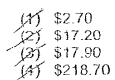


- (1) 36 cm³
- (2) 108 cm³
- (3) 218 cm³
- (4) 648 cm³
- A carpenter saw a plank 6.48 m long into 3 equal pieces. What was the length of 6. each piece of plank?
 - (1) 2.16 cm

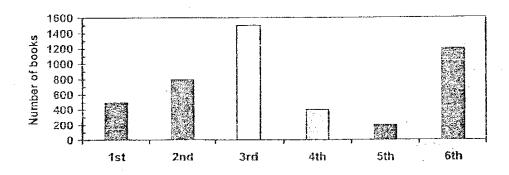
 - (2) 2.03 m (3) 213 cm
 - (4) 2.16 m

Through how many right angles does the minute hand turn in one hour? Ī. (1) 1 (2) 2 (3) 6 (4) 4 The average mass of five boys is 52 kg. The first 4 boys have a mass of 43 kg, 60 kg, 8. 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 The ratio of the amount of orange syrup to the amount of water used in making an 9. orange drink is 3:7. If 900ml of orange syrup was used, how much water was used? (1) 300 ml (2) 450 inl (3) 630 ml (4) 2100 ml Express $\frac{1}{20}$ as a percentage. .10. (1) 5% (2) 10% (3) 15% (4) 20% Jessie is 12 years younger then her cousin. In 2 years' time, her cousin will be 30 11. years old. How old is Jessie now? 16 years old (2) 18 years old (३) 20 years old (4) 26 years old

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

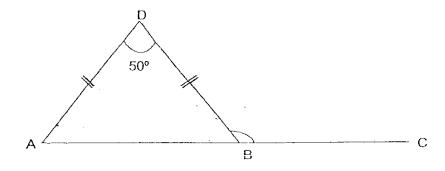


13. The line graph shows the total number of books sold in the first 6 days of its launch.



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 \angle DBC.



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

147

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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?

(H) \$224.70

(2) \$231.00

Jaj \$245.70

JAY \$247.80

Name :	()	Date :	
Class : Primary 5(\$)/C/G/SE/P		Time: 2 h 15 min	
Booklet B (80 marks)			
Questions 16 to 25 carry 1 mark each. For each question, write your answer in Give your answers in the units stated.	Questions 26 to 35 the space provided	carry 2 marks each. i.	Do not write In this column
16. Find the value of 60 – 15 + 5 x 2	2.		
		Ans:	
17. Express $1\frac{2}{3}$ in decimals. (Roun	ded off your answe	r to two decimal places)
	?		
			í

150

Given that the volume of the solid is 2496 cm³, find the height of the solid. 19. ? height 13cm 16cm Mrs Foo sold rambutans on Monday and Tuesday. If the amount of 20. rambutans sold on Tuesday is twice the amount sold on Monday, how much will she have sold altogether if she sold 1500g of rambutans on Tuesday? Ans: ____ shaded What is the area of the triangle? 21. 1cm

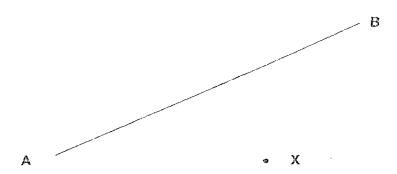
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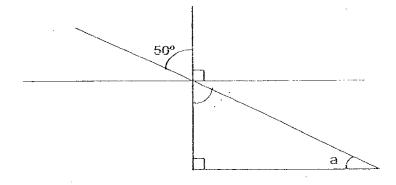
In this column

22. Draw a line perpendicular to line AB that passes through point X.

Do not write In this column



23. Find the value of \angle a.



Ans:

24. A fruit seller peeled 6 oranges in 3 minutes. What is the average number of oranges she peeled in a minute?

Ans: _____

and a story of

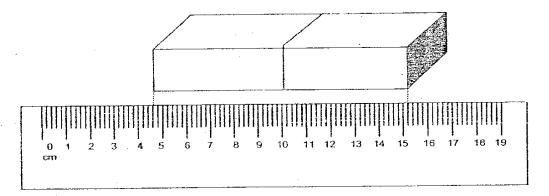
25.	Aini gave 35% of her marbles to Bala. What fraction of her marbles had she left?	Do not write In this colum
	Ans:	
spac	stions 26 to 35 carry 2 marks each. Show your working clearly in the se below each question and write your answers in the spaces provided questions which require units, give your 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?	
	- 153 Ans:	/ =

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: \$_____

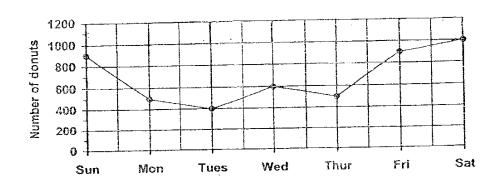
29. What is the length of the eraser?



Ans:____cm

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

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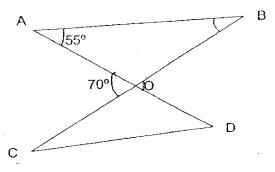


(a) What is the difference between the most number of donuts sold in a day, and the least number of donuts sold in a day?

(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 \angle ABO.



155

Ans:



32.	A pail with a capacity of 5.25 l is put under a dripping tap. After 20 minutes, the pail becomes half filled. At what rate is water dripping from the tap? (Give your answers in l / hr)	Do not write In this column
	Ans:l / 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:	
34.	Harry, Billy and Neville bought some computer games and shared out the 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

ane	3 -	_()	Date :	
lass	s: Primary 5 SYC/G/SE/P		Time : 2 h 15	min
how	your answers to questions 36 to 48 in the your working clearly in the space provided in in brackets at the end of each question o	d. The number	er of marks avail	question, lable is
36.	Linette bought 2 dolls and 5 books for \$1	154. Each do	oll cost 3 times a	as
	much as a book.			
	(a) Find the price of a doll.			
	(b) Find the difference in price between a	a doll and a t	ook.	
		· <i>J</i>	}ns: (a)	(2)
		. '	(b)	į
3	Three girls, Anna, Beatrice and Calis Anna's share was $\frac{1}{4}$ of the total leng			ribbons.
	Beatrice's share was $\frac{2}{3}$ of the total I	length of Ann	a's and Calista':	s ribbons.
	If Anna's share of ribbons is 45cm le	ess than Beat	trice's share, wh	at is the
	total length of the roll of ribbons?			
		and the second		
			Ans:	(3)

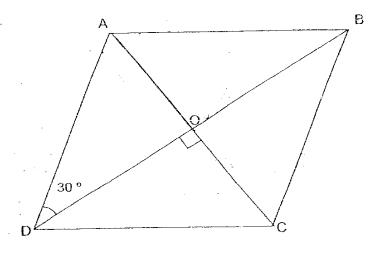
38. Figure ABCD is a rhombus. AC and BD are straight lines. AC = 10cm, BD = 14cm.

Do not write In this column

(a) Find \angle OAD. (1m)

2-

(b) Find the area of triangle DOC. (\$\mu\$m)



Ans: (a) 6 cr

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.

15

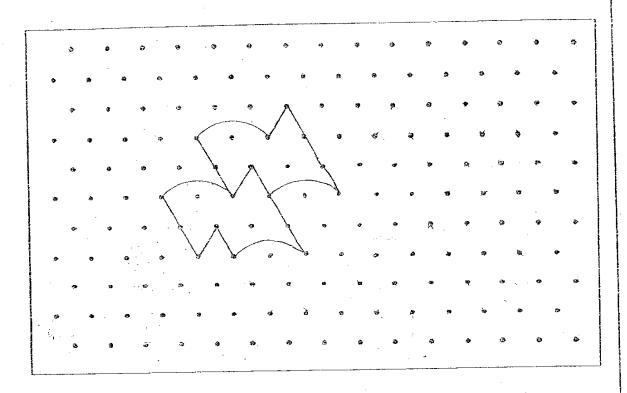
Ans:

_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?

op Official a

Ans: _____(3)

160 ...

瓜

42. It takes 3 jugs and 8 mugs of water to fill up a fish tank. The capacity of a mug is $\frac{1}{5}$ the capacity of a jug, what is the capacity of the fish tank given that a jug can hold 0.751 pf water?

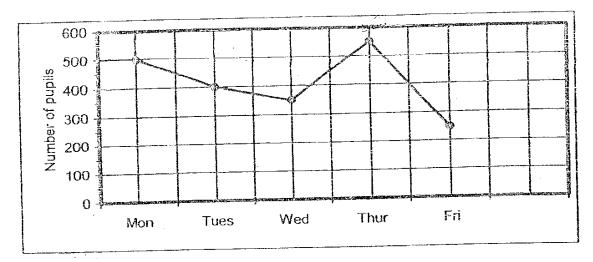
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161

Ans: (4)

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

Do not write In this column



- (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?

b) ______(1㎡)

(c)____(2m)

44(a) Construct a triangle ABC such that AB = 7 cm , BC = 5 cm and
$$\angle$$
 ABC = 60° . (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



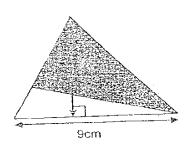
Rachel bought 4 times as many key chains as pencil cases. She spent 45. \$180.90 in total and \$56.70 more on key chains than the pencil cases. Do not write In this column The pencil cases cost \$1.20 more than the keychains. Find the cost of a

(5)

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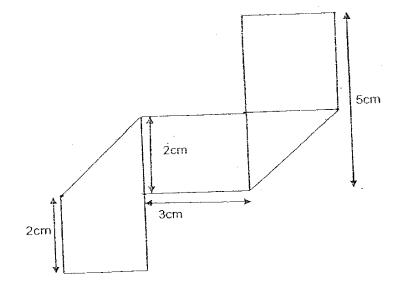
5 DOS

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



Ans: Perimeter: (2)	Ans: Perimeter: Area:	(2)
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is being filled

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 mi per minute. If it takes $5\frac{1}{3}$ hour for the tank to be filled to the brim, what was the height of the

tank?

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

1681

Ans: _____(5)

/₅

END OF PAPER
PLEASE CHECK YOUR WORK

SCGS Primary School

Primary 5 Maths SA2 Exam (2007)



QI	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

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





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

30b. Total =
$$500 + 400 + 600 + 500 + 900 + 1000$$

= 3900
Average = $3900 \div 6 = 650$

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

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

- **32**. 7.875
- 33. 1 hour
- 34. \$90
- **35.** \$888

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

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

37. 225cm

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 = 10cm ÷ 2 = 5cm
OD = 14cm ÷ 2 = 7cm
Area of DOC =
$$\frac{1}{2}$$
 x 5 x 7 = 17.5cm²

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

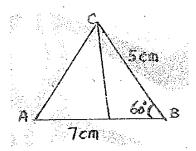
43b.
$$\frac{5}{5} = 500$$
 $\frac{1}{5} = 100$
 $\frac{4}{5} = 400$
 $400 = \text{Tuesday}$

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

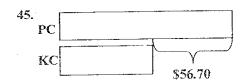
Average = $2050 \div 5$
= 410

Salary Sec.

442.



44b. 4.4cm



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

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

Every PC equals 4 KC



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 = 6400mf

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