

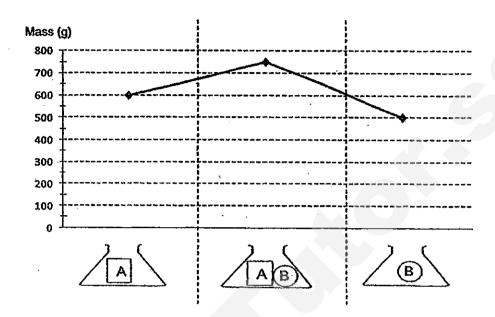
AI TONG SCHOOL

2013 CONTINUAL ASSESSMENT 1 PRIMARY 6

MATHEMATICS Paper 1 (Booklets A and B)

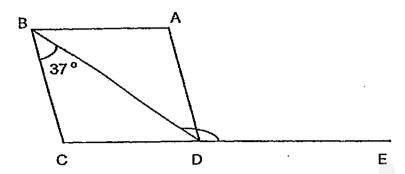
	(Booklets A and B	3)	
DURATION	: 50 min		
DATE	: 5 March 2013		
INSTRUCTIONS Do not open the booklet until you are told to do so. Follow all instructions. Answer all questions. You are not allowed to use a calculator. Name:()			
Class : Prima	ary 6 () / 6M ()	Paper 1 40	
D		Paper 2 60	
Parent's Sign Date	:	Total 100	

Use the line graph below to answer questions 4 and 5. The line graph shows the mass of 3 similar containers with different object(s) placed in each of them.



- 4 What is the total mass of object A and object B with the container?
 - (1) 600 g
 - (2) 750 g
 - (3) 800 g
 - (4) 1100 g
- 5 What is the mass of the container when it is empty?
 - (1) 150 g
 - (2) 250 g
 - (3) 350 g
 - (4) 450 g

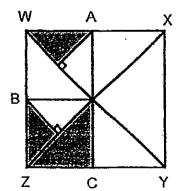
6 The figure below is not drawn to scale. ABCD is a rhombus. Given that CDE is a straight line, find ∠ BDE.



- (1) 116°
- (2) 127°
- (3) 133°
- (4) 143°
- 7 The price of an apartment when rounded off to the nearest \$1000 was \$431 000. Which of the following is a possible actual price of the apartment?
 - (1) \$430 456
 - (2) \$430 634
 - (3) \$431 546
 - (4) \$431 913
- The figure below shows a square, WXYZ. A, B and C are the mid-points of lines WX, WZ and YZ respectively. What percentage of the figure is shaded?



- (2) $33\frac{1}{3}\%$
- (3) $66\frac{2}{3}$ %
- (4) 75%

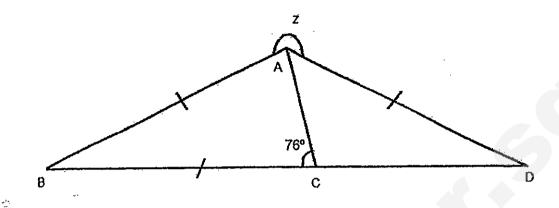


- Amir has as many \$2 notes as \$5 notes in his piggy bank. Given that the total amount of money in his piggy bank is \$140, how many \$5 notes does he have in his piggy bank?
 - (1) 14
 - (2) 20
 - (3) 35
 - (4) 40
- 10 8 people met at a party and they said "Hello" to each other once. How many times was the word "Hello" being said?



- (1) 28
- (2) 36
- (3) 56
- (4) 72
- 11 Find the value of 7 a + 12 + 6a when a = 6.
 - (1) 41.0
 - (2) 42.5
 - (3) 77.0
 - (4) 79.5
- The total score of 5 pupils in a Mathematics test is 431. Two pupils scored 82 marks each. What is the average score of the remaining 3 pupils?
 - (1) 86
 - (2) 89
 - (3) 164
 - (4) 267

13 The figure below is not drawn to scale. Given that AB = BC = AD, find $\angle z$.



- (1) 198°
- (2) 208°
- (3) 234°
- (4) 236°

The number of male workers in a factory was 45% of the number of female workers. After 72 female workers resigned, the ratio of the number of female workers to the number of male workers became 4:3. How many more female workers than male workers were there at first?

- (1) 81
- (2) 99
- (3) 108
- (4) 180

Billar weighs (2w + 5)kg heavier than Allan. Billar weighs 3 kg less than Collin. If Allan weighs 59 kg, what is Collin's weight in terms of w?

- (1) (51 + 2w) kg
- (2) (54 + 2w) kg
- (3) (64 + 2w) kg
- (4) (67 + 2w) kg

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 If $\frac{3}{7}$ of a number is 105 what is the number?

Ans:

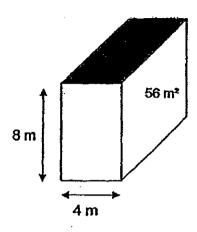
17 Find the value of 521 - 29.7.

Ans:____

18 Write $8\frac{5}{9}$ as a decimal correct to 1 decimal place.

Ans:_____

The area of one of the faces of the cuboid below is 56 m². Find the area of the shaded face of the cuboid.



Ans: ______ m²

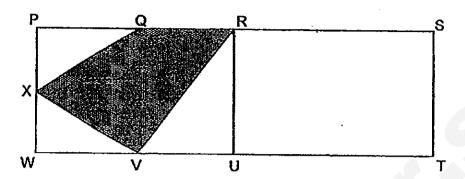
20 (9 + 4r) kg = g

Ans:

21 2 years ago, Wen Li's age was 12 years 8 months. What is her age in 9 months' time?

Ans: ______ years _____ months

Rectangles PRUW and RSTU are identical. Points Q, V and X are mid points of PR, UW and PW respectively. What fraction of the figure PSTW is shaded?



Ans:_____

A machine can print 85 copies of magazines in 20 minutes. How many copies of magazines can the machine print in 1 hour?

Ans: _____

Express $\frac{4}{5}$ % as a fraction in the simplest form.

Ans:_____

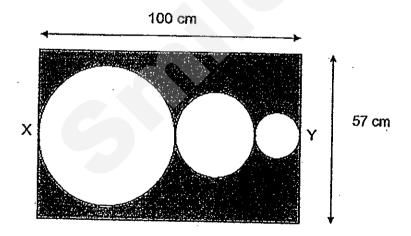
Ans:

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.(10 marks)

A packet of jelly beans cost \$ 12. Guo Ming bought 8 packets of jelly beans and 12 boxes of chocolates. He could also buy 18 boxes of chocolates with the same amount of money. How much did each box of chocolates cost?

\ns:\$	
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27 The figure below is not drawn to scale. It is made up of 3 different circles and a rectangle. Line XY cuts the centre of all 3 circles. Find the perimeter of the shaded part. ($\pi = 3.14$).



Ans:		cm
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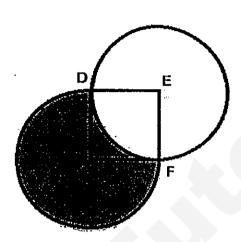
Tim took $\frac{1}{5}$ hour to run one round around a circular track. How many complete rounds can he run in $\frac{5}{6}$ hour?

Ans: _____

Ribbon A and Ribbon B were of the same length at first. After cutting 9.4 m from Ribbon A and 6.7 m from Ribbon B, the length of Ribbon B was 1.5 times that of Ribbon A. Find the original length of each ribbon.

30 The figure below is made up of 2 identical circles with centres C and E and a square CDEF. The diameter of the circle is 28 cm.

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



Ans: _____cm



END OF PAPER CHECK YOUR WORK CAREFULLY!



AI TONG SCHOOL

2013 CONTINUAL ASSESSMENT 1 PRIMARY 6

MATHEMATICS Paper 2

DURATION: 1 h 40 min

DATE	: 5 March 2013		·
Follow a Answer	CTIONS open the booklet until you a all instructions. all questions. allowed to use a calculator		l to do so.
Name	:	()
Class	: Primary 6 () / 6M ()	
Parent's	Signature :		Total 60

Questions 1 to 5 carry 2 marks each. Show your working clearly in the	a chara
in the state of th	s space
provided for each question and write your answers in the spaces prov	Adad
The state of the spaces blow	racu.
For questions which require units, give your answers in the units state	ad
	5 u .
	(10 morks)
	(10 marks)

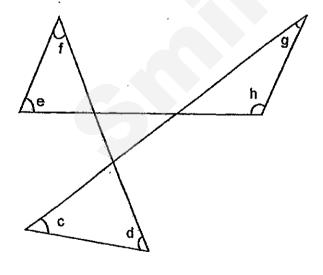
Do not write in this space

The length of Pole A is $\frac{5}{7}$ the length of Pole B. After 36 cm was cut off 1 from each pole, the length of Pole A is $\frac{2}{3}$ of Pole B. What is the original length of Pole B?

Ans:



The figure, not drawn to scale, shows 4 different triangles Find the sum 2 of $\angle c$, $\angle d$, $\angle e$, $\angle f$, $\angle g$ and $\angle h$.



° [2]

1 1	ı
	ĺ
	l
11	ŀ
1	•

3 The table below shows the rate of renting a rod at Fernvale Prawning Park.

Do not write in this space

First Hour	\$19.50
Every additional $\frac{1}{2}$ h or part thereof	\$6

Ah Teck rented a rod from 10.45 a.m. to 2 p.m. How much did he pay for the rental of the rod?

•		
Ans:	\$ f	21

4	Suying and Sumei baked some cupcakes each. If Suying gave away $\frac{2}{5}$ of her cupcakes and Sumei ate $\frac{1}{7}$ of hers, both of them will have the same number of cupcakes left. What fraction of the total cupcakes did Sumei bake?	Do not write in this space
	Ans: [2]	
5	Caleb and Derek shared a sum of money. When Caleb's share decreased from \$1605 to \$900, the amount Derek received increased by 15%. How much did Derek receive at the end?	
	·.	
	Ans: \$[2]	

que ava	questions 6 to 18, show your working clearly in the space provided for each stion and write the answers in the spaces provided. The number of marks lable is shown in the brackets [] at the end of each question or question. (50 marks)	Do not write in this space.
6	24 mugs and 15 bowls cost \$386.10. If each mug cost half as much as each bowl, find the cost of 36 mugs.	
	Ans:[3]	
7	The figure, not drawn to scale, is made up of 2 squares. Find $\angle f$.	
	38°	
	Ans:[3]	

8	Grace used some matchsticks to make (a) How many matchsticks were used (b) If Grace used 131 matchsticks, w	d in Pattern 4?		Do not write in this space
	Pattern 1 Pattern 2	Pattern 3		
		Ans: (a)	[1]	
		(b) Pattern	[2]	····
	•			

A microwave oven, inclusive of 7% GST, costs \$214. If the store is having Do not write in a storewide discount of 25%, how much does Adam have to pay for the this space microwave oven, including GST, after discount?

Ans:

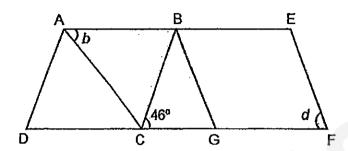
[4]

10	Draw an isosceles triangle RST in which $\angle RST = 66^{\circ}$ and RS = RT. Label the triangle clearly Measure and write down the length of RS	Do not write in this space
	S	
	_	
	Ans:[1]	İ

11	The figure below, which is not drawn to scale, is made up of 2 identical quadrants and 2 identical isosceles triangles. The radius of the quadrant is 20 cm. Find the total area of the shaded parts of the figure Round off your answer to 2 decimal places.	Do not write in this space
	Ans: [4]	

12 In the figure below, not drawn to scale. ABCD and BEFG are identical rhombuses. ABE and DCGF are straight lines. Find the sum of ∠b and ∠d.

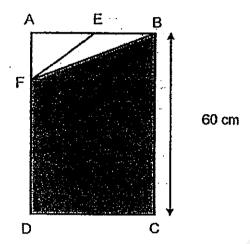
Do not write in this space



Ans : _____[4]

- 13 In the figure below, the area of triangle BEF is 90 cm² and AE=BE
 The ratio of the length of AF and FD is 1:3.
- Do not write in this space

- a) Find the area of the shaded part.
- b) Find the perimeter of rectangle ABCD.



Ans: (a) ______[2]

(b) _____[2

14	A fruiterer had the same number of apples. pears and lemons at first. After 98 lemons, some apples and pears were sold, there were 297 fruits left. There were twince as many apples as pears left. The number of lemons left was 13 fewer than the number of apples left. How many pears were sold?	Do not write in this space
		-
		•
	Ans:[4]	

15	Anna and Ben take 9 days to complete a jigsaw puzzle. Ben and Celine take 3 days to complete the same jigsaw puzzle. When Celine partners Dennis, they take 4 days to complete the jigsaw puzzle. How many days will Anna and Dennis take to complete 2 such jigsaw puzzles?	Do not write in this space
	-	
		·.
	Ans:[4]	

in a car park, there are thrice as many cars as vans. The number of cars in twice the number of motorcycles. The total number of wheels these Do not write in 16 this space vehicles have is 4598. (a) How many cars are parked at the car park? (b) If $\frac{1}{3}$ of the motorcycles left the car park, how many vehicles are left in the carpark? Ans: (a)_____ [3]

[2]

Every month, Andy spent $\frac{1}{5}$ of his income on food and $\frac{2}{3}$ of the remaining money on rental. After spending his income on food and rental, he gave $\frac{1}{2}$ of remaining money to his parents and had \$250 left. How much did he spend on food and rental every month?

Do not write in this space

Ans:_____[4]

18	On Teachers' Day, a florist sold thrice as many roses as orchids and collected \$703 in total. She collected \$437 more for the roses than the orchids. Given that a stalk of rose cost \$1.50 more than a stalk of orchid, find the cost of a stalk of orchid.	Do not write in this space
	Ans:[5]	

END OF PAPER CHECK YOUR WORK CAREFULLY!



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: AITONG

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	010	011	012	013	014	015
1	3	. 3	2	3	4	2	1	2	3	2	2	4	2	4

16)245

17)491.3

18)8.6

19)28m₂

20)(9000+4000r)

21)15 years 5 months

22) 1/4

23)255

24)1/125

25)(1P+14)

26)\$16

27)628cm

28)4

29)14.8m

30)504cm₂

Paper 2

1)1unit→36cm 7units→36cm x 7 = 252cm

2)180° x 4 = 720° 720° - (180° x 2) = 360°

3)10.45 a.m to 2p.m. is 3h 15 min \$19.50 + (5 x \$6) = \$49.50

4)5 x 2 = 10 10 + 7 = 17 7÷17 = 7/17

```
5)$1605 - $900 = $705
   15% → $705
  115\% \rightarrow $705 \times 115/15 = $5405
6)15 \times 2 = 30
    24 + 30 = 54
    36 \rightarrow 54 \times 2/3
    \Rightarrow$386.10 x 2/3 = $257.40
7)180° -(90° + 38°) = 52°
    180^{\circ} - 52^{\circ} = 128^{\circ}
    180^{\circ} - 128^{\circ} = 52^{\circ}
   180^{\circ} - (52^{\circ} + 54^{\circ}) = 83^{\circ}
8)a)4 \times 2 = 8
     4 + (3 \times 3) = 13
     13 + 8 = 21
  b)131 - 6 = 125
     125 \div 5 = 25
     25 + 1 = 26
9)$214 \times 100/107 = $200
  $200 - 25\% = $150
  $150 \times 107/100 = $160.50
10)6cm
11) Area of an isosceles triangle = \frac{1}{2} \times 10 \times 20 = 100 \text{cm}^2
   Area of half a circle = (\prod \times 20 \times 20)
   = 628
  Area of shaded area = 628 - (100 \times 2)
=428.30 (to 2dp)
12)180^{\circ} - (46^{\circ} \times 2) = 88^{\circ}
    180^{\circ} - 88^{\circ} = 92^{\circ}
    92^{\circ} \div 2 = 46^{\circ}
    180^{\circ} - 46^{\circ} = 134^{\circ}
    134^{\circ} \div 2 = 67^{\circ}
```

 $67^{\circ} + 46^{\circ} = 113^{\circ}$

```
13)a)60÷4 = 15cm

90cm<sub>2</sub> x 2 = 180cm<sub>2</sub>

180cm<sub>2</sub>÷15cm = 12cm

½ x 24cm x 15cm = 180cm<sub>2</sub>

45cm x 24cm = 1080cm<sub>2</sub>

1080cm<sub>2</sub> + 180cm<sub>2</sub> = 1260cm<sub>2</sub>

b)(60cm x 2) + (24cm x 2) = 168cm
```

15)72 day

18)\$3.50

METHODIST GIRLS' SCHOOL

Founded in 1887



CONTINUAL ASSESSMENT 2013 PRIMARY 6 MATHEMATICS

PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 50 minutes

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.

The use of calculators is NOT allowed.

Name:		()
Class:	Primary 6.		

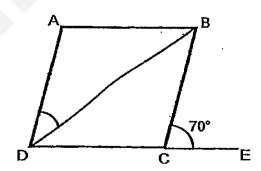
Date: 5 March 2013

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(20 marks)

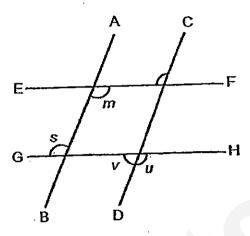
- 1 Mary spent \$m on 3 pens and 6 notebooks. The 3 pens cost \$5. What is the cost of 1 notebook?
 - (1) $\$\frac{m-15}{6}$
 - (2) $\$\frac{m-15}{9}$
 - 3 $3\frac{m-5}{6}$
 - $(4) \qquad \$^{\frac{m-5}{2}}$
- The breadth of a rectangle is y cm. The length is 7 cm longer. What is the perimeter of the rectangle?
 - (1) (2y+7) cm
 - (2) (2y + 14) cm \div
 - (3) (4y + 7) cm
 - (4) (4y + 14) cm
- ABCD is a rhombus. DE is a straight line. \angle BCE = 70°. Find \angle ADB.



- (1) 35°
- (2) 45°
- (3) 70°
- (4) 110°

(Go on to the next page)

In the diagram below, AB is parallel to CD and ER is parallel to GH. Which angle is **not** equal to $\angle m$.



- (1) Zs
- (2) ∠t
- (3) ∠u
- (4) ∠v
- 5 How many eighths are there in $2\frac{3}{4}$?
 - .(1) 9
 - (2) 11
 - (3) 16
 - (4) 22
- The mass of butter, flour and sugar are mixed in the ratio 3:4:5 to bake a cake. The mass of the cake is 720 g. Find the mass of the butter that was used.
 - (1) 60 g
 - (2) 180 g
 - (3) 300 g
 - (4) 240 g

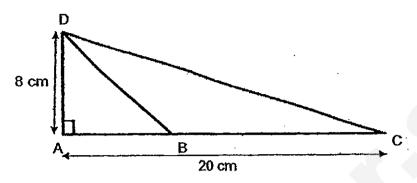
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7	Sharifah tied some pens in bundles of 45 each. There were 5 red pens and
	some blue pens in every bundle. What was the ratio of the number of red pens
	to the number of blue pens?

- (1) 1:9
- (2) 9:1
- (3) 1:8
- (4) 8:1
- 8 Mr Lee nailed a square board by placing nails along all its edges. There were 25 nails along an edge of the board. How many nails did Mr Lee use altogether?
 - (1) 92
 - (2) 96
 - (3) 97
 - (4) 100
- The average of 3 numbers is 78. When a fourth number is added, the average of the 4 numbers is 80. What is the value of the fourth number?
 - (1) 86
 - (2) . 2
 - (3) 234
 - (4) 320

(Go on to the next page)

10 In the figure below, AC is a straight line and ABD is an isosceles triangle. What is the area of triangle BCD?



- (1) 48 cm²
- (2) 80 cm²
- (3) 96 cm²
- (4) 160 cm²

In a movie theatre, $\frac{5}{9}$ of the audience were men, $\frac{3}{4}$ of the remainder were women and the rest were children. What fraction of the audience were children?

- (1) <u>1</u>
- (2) $\frac{1}{3}$
- $\frac{5}{12}$
- (4) $\frac{5}{36}$

For every blouse that Siti sells, she earns \$10. She is given a commission of \$5 for every 5 blouses sold. How many blouses must she sell to earn \$220?

- (1) 20
- (2) 40
- (3) 45
- (4) 50

13	Ahmad. Bemard and Calvin shared the cost of a meal equally. Ahmad forgot to
	bring his wallet so Bernard and Calvin paid for him first. The ratio of the amount
	of money that Bernard paid to the amount of money that Calvin paid is 7:11. If
	Ahmad returned \$25 to Calvin, how much must be return to Bernard?

- (1) \$5
- (2) \$25
- (3) \$35
- (4) \$55

Peihua and Xinyi have 35 stickers altogether. Jenny has 5 stickers more than what Peihua and Xinyi have. What is the average number of stickers that each of them have?

- (1) 25
- (2) 35
- (3) 40
- (4) 75

Ahmad receives \$200 from his mother as his weekly allowance. He spends \$70 on food, \$25 on transport and saves the rest. What percentage of his weekly allowance does he save?

- (1) 12.5%
- (2) 35%
- (3) 47.5%
- (4) 52.5%

METHODIST GIRLS' SCHOOL

Founded in 1887



CONTINUAL ASSESSMENT 2013 PRIMARY 6 MATHEMATICS

PAPER 1 (BOOKLET A)

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Name:	()

Class: Primary 6.

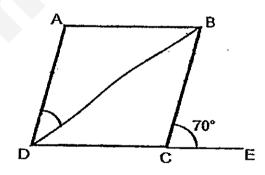
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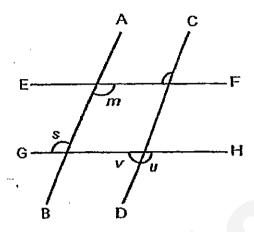
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- (1) ∠s
- (2) ∠t
- (3) ∠ u
- (4) ∠ v

5 How many eighths are there in $2\frac{3}{4}$?

- .(1) 9
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- (3) 16
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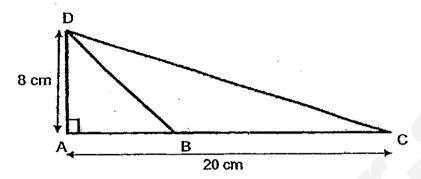
The mass of butter, flour and sugar are mixed in the ratio 3:4:5 to bake a cake. The mass of the cake is 720 g. Find the mass of the butter that was used.

- (1) 60 g
- (2) 180 g
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- (3) 1:8
- (4) 8:1
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- (3) 96 cm²
- (4) 160 cm²

In a movie theatre, $\frac{5}{9}$ of the audience were men, $\frac{3}{4}$ of the remainder were women and the rest were children. What fraction of the audience were children?

- (1) $\frac{1}{9}$
- (2) $\frac{1}{3}$
- $\frac{(3)}{12}$
- $\frac{5}{36}$

For every blouse that Siti sells, she earns \$10. She is given a commission of \$5 for every 5 blouses sold. How many blouses must she sell to earn \$220?

- (1) 20
- (2) 40
- (3) 45
- (4) 50

METHODIST GIRLS' SCHOOL

Founded in 1887.



CONTINUAL ASSESSMENT 2013 PRIMARY 6 MATHEMATICS

PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name:_		()
Class:	Primary 6		•

5 March 2013

Date:

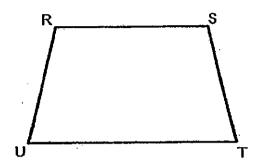
Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
TOTAL	/ 100

This booklet consists of 8 printed pages including this page.

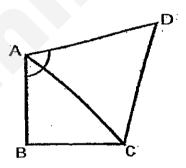
Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

16 RSTU is a trapezium. Mark out on the diagram two angles which, when added together, will give a sum of 180°. Name these 2 angles f and g respectively.



ABC is a right-angled isosceles triangle and ADC is an equilateral triangle. Find ∠BAD.



٠,

^
Ans:

18	Find the value of	8 +	$\frac{7}{1000}$ as a decimal. Give your answ	er as a decimal.
----	-------------------	-----	---	------------------

Ans:

9 pizzas are shared equally among some girls.

How many girls are there if each girl gets $\frac{3}{4}$ of the pizza?

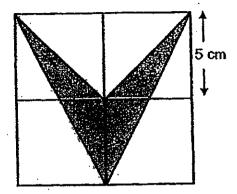
Ans:_____

20 Express $1\frac{1}{8}$ as a decimal.

Ans: _____

21	$\frac{1}{6}$ of Jason's money is equal to $\frac{2}{5}$ of Kelvin's money. Find the ratio of Jason's money to Kelvin's money.
	Ans:
22	The cost of tiling a floor area of 25 m^2 is \$500. Find the cost of tiling a room with a floor area of 125 m^2 .
	Ans: \$
23	Ahmad has thrice as much money as Devi. If Ahmad gives Devi \$45, he will
	have the same amount of money as Devi. How much money does Ahmad have?
	Ans: \$
	(Go on to the next page)

The figure below is made up of squares of side 5 cm. Find the area of the shaded parts.



Ans:		cm

The ratio of the number of marbles John had to the number of marbles Ali had to the number of marbles Zainal had is 4:3:5.

Express Ali's marbles as a percentage of the total number of marbles.

Ane-		%

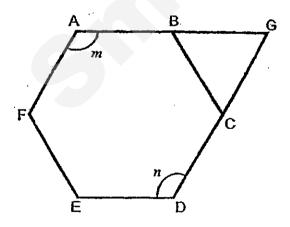
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Jane has $\frac{2}{5}$ as much money as Rani. If Rani has \$p\$ more than Jane, how much money does Jane have?

Ans: \$	
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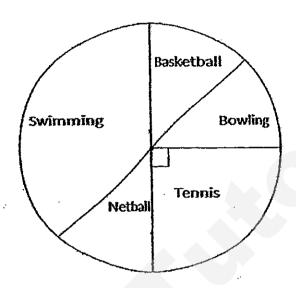
27 The figure below is made up of a regular hexagon, in which AB= BC=CD=DE=EF=FA, and an equilateral triangle BCG. What is the sum of $\angle m$ and $\angle n$?



Ans:	

The pie chart below shows the favourite sports of a group of children. Half of this number of children like swimming and netball.

The same number of children like Bowling, Netball and Basketball. What percentage of the number of children like swimming?



Ans:	%
W132-	

29	A rectangular field has a perimeter of 96 m. The ratio of the length of the field to the breadth is 5 : 3. Find the area of the field.
	Ans:m²
30	The usual price of a bag was \$55. At a sale, John bought the bag at a discount of 5%. How much did he pay for the bag?
	Ans: \$
	End of Paper

METHODIST GIRLS' SCHOOL

Founded in 1887



CONTINUAL ASSESSMENT 2013 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name:_	()	
Class:	Primary 6		
Date:	5 March 2013		

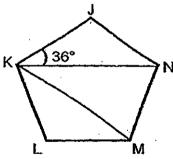
This booklet consists of 15 printed pages including this page.

60

Questions 1 to 5 carry 2 marks each. Show your workings clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

There are *n* yellow, red and blue marbles altogether. There is an equal number of yellow and red marbles. There are 5 more blue marbles than yellow marbles. How many blue marbles are there? Express your answer in terms of *n*.

In the figure below, JK = KL = LM = MN = NJ. JN is parallel to KM. Find $\angle JNM$.



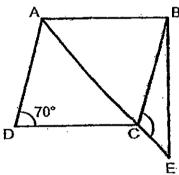
Ans:	.0

There are some hens, cows and goats in a farm. The ratio of the number of 3 hens to the number of cows is 3:4. The ratio of the number of cows to the number of goats is 2:3. What is the ratio of the number of hens to the total number of animals in the farm?

Ans:		

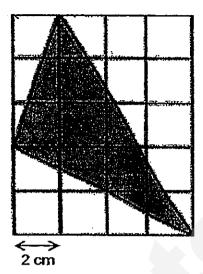
ABCD is a rhombus and ABE is a right-angled triangle. \angle ADC = 70°.

Find ∠BCE.



Ans:

5 Find the area of the shaded triangle.

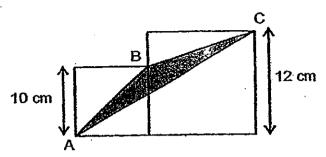


Δne·	cm ²

and	Questions 6 to 18, show your working clearly in the space below each question write your answer in the spaces provided. The number of marks available is wn in the brackets [] at the end of each question or part-question. (50 marks)
6	The ratio of the number of Singapore stamps to the number of Malaysia stamps Peter had was $4:5$. After giving away $\frac{1}{2}$ of his Singapore stamps to his friend, he had 45 more Malaysia stamps than Singapore stamps. How many Malaysia stamps did he have?
7	Ans:[3] Jane, Mary and Tom had a total of 400 game cards. Jane gave 45 cards to
	Mary. Mary gave 56 cards to Tom. In the end, the ratio of the number of cards Tom had to the number of cards Jane had to the number of cards Mary had wa 9:6:10. How many cards did Mary have at first?
	Ans:[3

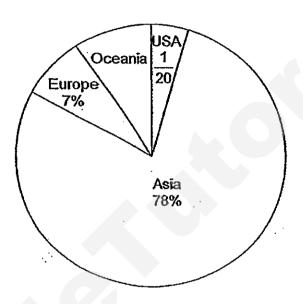
8	Ahmad carried home 3 bags of books. The total number of books in Bags B and C is 9 more than the number of books in Bag A. The total number of books in Bags A and C is 13 more than the number of books in Bag B. Given that Bag A has more books than Bag B, how many books are there in Bag C?
	Ans:[3]
9	Henry took 3 Mathematics tests last year. His average score for the first 2 tests was 88 and his average score for all the 3 tests was 85. Henry scored 5 more marks in the second test than the third test. What was his score for the first test?
	Ans:[3]
	(Go on to the next page)

10 The figure below is made up of two squares. Find the area of the triangle ABC.



Ans:_____[3]

- 11 The pie chart below shows the percentage of visitors to Singapore in June 2012. There were 900 666 visitors from Asia.
 - (a) What percentage of the visitors was from Oceania?
 - (b) How many visitors were there altogether? Round off your answer to the nearest thousand.



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

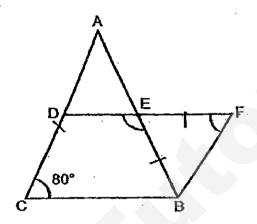
- At a concert, there were $\frac{4}{5}$ as many boys as girls and $\frac{2}{3}$ as many adults as children. There were 120 more adults than boys.
 - (a) How many people were there at the concert?
 - (b) What fraction of the people at the concert were children?

Ans: (a)	[3]
(b)	f1'

- John is k years old. His father is 4 times as old as him. His mother is 3 years younger than his father.
 - (a) How old is John's mother? Give your answer in terms of k.
 - (b) In how many years' time will John's father be twice as old as John. Give your answer in terms of k.

Ans: (a)	 [2]
<i>a</i> \$	101

- In the diagram below, ABC is an isosceles triangle and BCDF is a trapezium. $BE = EF \text{ and } \angle DCB = 80^{\circ}.$
 - (a) Find ∠BED.
 - (b) Find ∠BFE.



Ans:	(a)_	 ·	 [2]

(b)_____[2]

- 15 The ratio of Liling's money to Yingqi's money was 7:4. When Liling gave \$100 to Yingqi, the ratio became 5:6.
 - (a) How much money did Liling have at first?
 - (b) What fraction of her money did Liling give away to Yingqi? Give your answer in the simplest form.

Ans: (a)	[3]
(b)	[1

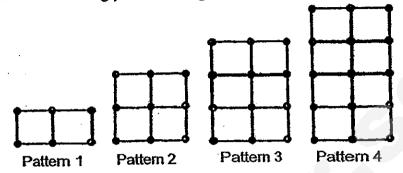
- There are 40 pupils in Primary 4A in January. The ratio of the number of boys to the number of girls in the class is 2:3. $\frac{5}{8}$ of the boys wear spectacles and $\frac{2}{3}$ of the girls wear spectacles.
 - (a) What percentage of the class wore spectacles in January?
 - (b) 5 more pupils needed to wear spectacles in July. What percentage of the class were spectacles in July?

Ans:	(a)	 [3]
	/k\\	[2]

- Shop A and Shop B had a total of 10 400 packets of flour at first. Both shops sold $\frac{3}{5}$ of their packets of flour. Shop B then had 520 more packets of flour than Shop A.
 - (a) How many packets of flour did Shop B have at first?
 - (b) Shop B sold each packet of flour at \$2.25. How much did Shop B collect from the sale of the flour?

Ans: <u>(</u> a)	[3]
(b)	[2
	the nevt nade

18. Ahmad made the following patterns using dots and lines.



	Number of lines	Number of dots
Pattern 1	7	6
Pattern 2	12	9
Pattern 3	17	12
Pattern 4	22	15
•	•	¥
•		
Pattern 6	(a)	

- (a) Find the number of lines in Pattern 6. Write your answer in the table above. [1]
- (b) Find the total number of the lines and dots in Pattern 15.
- (c) Which Pattern has a total of 245 lines and dots?

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

End of Paper



MISHER SHEET

EXAM PAPER 2013

SCHOOL: MGS

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

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

16) R	S
P4	
/ '	
/	
△9	
U	T

18)0.807

19)12 girls

21)12:5

22)\$2500

24)25cm₂

25)25%

27)240°

28)37.5%

30)\$52.25

Paper 2

1)
$$n+5+5=n+10$$

$$(n+10)\div 3 = n+10/3$$

There are n+10/3 marbles

$$2)180^{\circ} - (36^{\circ} \times 2) = 180^{\circ}$$

 \angle JNM = 180° (all sides of JNMLK are the same)

∠JNM is 108°

Page 1 to 5

page 1

```
3)h:c c:g
3:4 2:3
h:c:g
6:8:12
H:T+L
6:26
3:13
The ratio is 3:13
```

4)(180° - 70°)
$$\div$$
2 = 55°
70° + 55° = 125°
 \angle BCE is 125°

7) T: J: M

8)11 books

10) $\frac{1}{2} \times 12 \times 2 = 12$ $\frac{1}{2} \times 10 \times 10 = 50$ $\frac{1}{2} \times 12 \times 22 = 132$ $10 \times 10 + 12 \times 12 = 244$ 244 - 132 - 50 - 12 = 50The area of the triangle ABC is 50cm²

11)a)
$$1/20 = 5/100$$

 $100 - 78 - 7 - 5 = 10$
 10% of the visitors was from Oceania.
b) $78\% \rightarrow 900666$ visitors

100% →100 x 900666/78 = 1154700 visitors ≈1155000visitors

There were 1155000 visitors altogether.

12)a)6
$$- 4 = 2$$

120 \div 2 = 60
60 x (4+5+6) = 900
There were 900 people at the concert.
b)60 x 9 = 540
540/900 = 3/5
3/5 of the people were children.

John's father will be twice as old as John in 2K years time.

14)a)180°
$$-(80^{\circ} \times 2) = 20^{\circ}$$

 $80^{\circ} + 20^{\circ} = 100^{\circ}$
 $\angle BED = 100^{\circ} \text{ (vert.opp.} \angle)$
 $\angle BED \text{ is } 100^{\circ}$
b)180° $-100^{\circ} = 80^{\circ}$
 $(180^{\circ} - 80^{\circ}) \div 2 = 50^{\circ}$
 $\angle BFE \text{ is } 50^{\circ}$

a)7 - 5 = 2
2 units
$$\rightarrow$$
\$100
7 units \rightarrow 7 x 100/2 = \$350
Liling had \$350 at first.

b)2/7 = 2/7 Liling gave 2/7 of her money to Yingqi.

17)a)260 x 5 = 1300

$$(10400 - 1300) \div 10 = 9100 \div 10 = 910$$

 $(910 \times 5) + 1300 = 5850$
Shop B had 5850 packet of flour at first.
b)3/5 x 5850 = 3510
3510 x 2.25 = 7879.50
Shop B collected \$7879.50

There are 125 dots and lines in Pattern 15.

c)
$$245-13 = 232$$

 $232 \div 8 = 29$
 $29 + 1 = 30$

Pattern 30 has 245 lines and dots.



NAN HUA PRIMARY SCHOOL CONTINUAL ASSESSMENT 1 – 2013 PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Questions (20 marks).

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
- 6. You are not allowed to use the calculator for Paper 1.

Marks Obtained

Paper 1	/ 40
Paper 2	/ 60
Total	/ 100

Name :		(-]
Class:	-		
Date : 27 February 2013	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) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

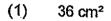
- 1. 6 hundreds, 7 tenths and 9 thousandths is _____
 - (1) 670.009
 - (2) 600.970
 - (3) 600.709
 - (4) 600.079
- 2. $\frac{2}{3} \div \frac{2}{5}$ is the same as _____
 - (1) $\frac{2}{3} \div \frac{5}{2}$
 - $(2) \qquad \frac{3}{2} \div \frac{2}{5}$
 - $(3) \qquad \frac{3}{2} \times \frac{2}{5}$
 - $(4) \qquad \frac{2}{3} \times \frac{5}{2}$

- 3. Express $\frac{6}{25}$ as a percentage.
 - (1) 0.024%
 - (2) 0.24%
 - (3) 2.4%
 - (4) 24.0%
- 4. $\frac{3}{8} =$: 48
 - (1) 6
 - (2) 16
 - (3) 18
 - . (4) 24
- 5. Harry and Sunny had a total of 39 stickers. The ratio of Harry's stickers to Sunny's stickers was 4:9. How many more stickers had Sunny than Harry?
 - (1) 12
 - (2) 13
 - (3) 15
 - (4) 27
- 6. Rene has the same number of \$2 notes and \$5 notes. Their total value is \$56. What is the value of all her \$2 notes?
 - (1) \$14
 - (2) . \$16
 - (3) \$28
 - (4) \$40

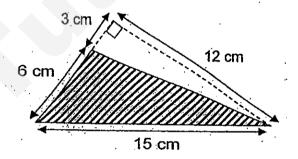
- 7. Mdm Lee used $\frac{1}{3}$ kg of flour to bake 5 similar cakes. How many kilograms of flour did she use to bake 2 such cakes?
 - $(1) \qquad \frac{1}{30} \text{kg}$
 - (2) $\frac{1}{15}$ kg
 - $(3) \qquad \frac{2}{15} \text{kg}$
 - (4) $\frac{2}{3}$ kg
- 8. Candy scored 60 marks for her first test and 75 marks for her second test.

 Each test was out of 100 marks. Find the percentage increase in her score.
 - (1) 15%
 - (2) 20%
 - (3) 25%
 - (4) 80%
- 9. Sally had as many red beads as green beads. She used $\frac{1}{4}$ of her red beads and $\frac{1}{2}$ of her green beads for a necklace. What fraction of her beads had she left?
 - (1) $\frac{1}{4}$
 - (2) $\frac{3}{8}$
 - (3) $\frac{5}{8}$
 - (4) $\frac{3}{4}$

- 10. $\frac{1}{5}$ of Ken's salary is $\frac{1}{4}$ of John's salary. What is the ratio of John's salary to Ken's salary?
 - 1) 1:20
 - 2) 20:1
 - 3) 5:4
 - 4) 4:5
- 11. Study the figure below carefully (not drawn to scale). Find the area of the shaded triangle.



- (2) 45 cm²
- (3) 54 cm²
- . (4) 90 cm²



- 12. For every $\frac{1}{6}$ of the wall that Helen paints, Joan will paint $\frac{1}{3}$ of it. What fraction of the wall will Joan paint if Helen paints $\frac{1}{8}$ of it?
 - (1) $\frac{1}{18}$
 - (2) $\frac{1}{16}$
 - (3) $\frac{1}{4}$
 - (4) $\frac{1}{2}$

- 13. Armanda and Darren shared the total cost of a present. Amanda paid \$25 more than $\frac{2}{5}$ of the cost of the present. Darren paid \$65. How much was the present?
 - (1) \$150
 - (2) \$180
 - (3) \$225
 - (4) \$270
- 14. There were 40 children at a birthday party. 30 of them were girls. How many percent more girls than boys were there?
 - (1) 25 %
 - (2) 50 %
 - (3) 200 %
 - (4) 300 %
- 15. Jenny has some blue and red marbles in Jar A and Jar B. Each jar has the same number of marbles. The number of blue marbles to the number of red marbles in Jar A is 1:2 while that in Jar B is 4:5.

 What is the ratio of the total number of blue marbles to the total number of red marbles that Jenny has?
 - (1) 1:3
 - (2) 2:5
 - (3) 5:7
 - (4) 7:11

Section B (20 marks)

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each. For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

16. Express $10\frac{1}{2}\%$ as a decimal.

Ans:____

17. Express 9 months as a fraction of 3 years in the simplest form.

Ans:

18. Mrs Wong can exchange 300 coupons for 200 stickers at a shop. How many stickers can she exchange 900 coupons for?

Ans: ___stickers

19. Lily and May shared a sum of money in the ratio 18:7.

What percentage of the sum of money did May receive?

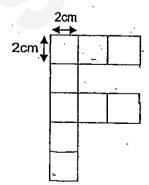
Ans: %

20. The ratio of Ali's money to Ben's money to Clara's money is 1:2:3. What is the ratio of Clara's money to the total amount of money that the three children have? (Write your answer in the simplest form)

Ans : ____:__

21. The figure below is made up of 9 identical squares of sides 2 cm each. By rearranging the squares in the figure, form a rectangle which has the largest possible perimeter. Find the perimeter of this newly formed rectangle.

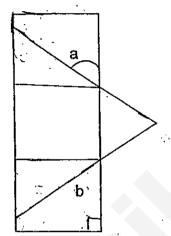
7



22. Mrs Phua saved a total of \$70 in the first 5 months. She saved \$50 in the sixth month. On the average, how much did she save in a month?

Ans : \$_____

23. The figure below (not drawn to scale) is made up of an equilateral triangle and a rectangle. Find the sum of \angle a and \angle b.



Ans :_____

24. At a pet shop, the price of a swordtail is $\frac{5}{8}$ the price of a catfish. The price of a guppy is half the price of a swordtail. What is the ratio of the price of a catfish to the price of a swordtail to the price of a guppy?

Ans: :__:__

25. A faulty clock gains $\frac{1}{4}$ min each day. How long does the clock take to gain $\frac{1}{4}$ h?

Ans: ______day(s)

26. Parcel A is $\frac{1}{6}$ as heavy as Parcel B. Parcel B is $\frac{1}{2}$ as heavy as Parcel C. How many times is Parcel C as heavy as Parcel A?

Ans: times

27. Sara went shopping with \$300. She spent 35% of her money on a skirt and 30% of the remainder on a bag. How much did she spend on the bag?

Ans : \$_____

28.	Mrs Wong bought a total of 42 curry puffs and tuna puffs. After giving	g away
	27 curry puffs, there were $\frac{2}{3}$ as many curry puffs as tuna puffs left.	How
	many curry puffs did Mrs Wong buy?	

29. Look at the number line below.

2				3
10		A	В	Ę

A is exactly midway of $\frac{2}{10}$ and $\frac{3}{5}$. B is exactly midway of A and $\frac{3}{5}$. What is the value of B? Write your answer in the simplest form.

30. A square was enlarged so that its length on each side was tripled. What was the percentage increase in its perimeter?

End-of-Paper 1



NAN HUA PRIMARY SCHOOL CONTINUAL ASSESSMENT 1 — 2013 PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully
- 4. Answer all questions and show your workings clearly.
- 5. You are allowed to use a calculator.

Marks Obtained

•	Total	·	<i>l</i> 60		
2.2				1	
Naņ	ne:	: 		()
Clas	ss:				
Date	e : 27 February 2013	Parent's	s Signature :	·.	

Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

At a fruit stall, durians were sold at \$11.00 each. Marcus had \$183.20.
 What is the most number of durians that he could buy with all his money?

Ans: ____durians

2. Shawn wrote some consecutive numbers starting from 1 on a piece of paper. He stopped after writing 89 digits. What was the last **2-digit number** that he wrote?

Ans:

3. At a party, there are 288 more girls than boys. The number of girls is 66% of the total number of children at the party. How many children are there at the party?

Ans:____children

4. Judy spent 3 days making some kites for sale. Each day she made 4 kites more than the day before. She made a total of 42 kites. How many kites did she make on the first day?

Ans: ____kites

5. Ann and Sherry have some twenty-cent coins in the ratio 2: 9 respectively. If Sherry has \$14 more than Ann, how much does Sherry have?

Ans: \$_____

For each question from 6 to 18, show your workings clearly in the space below it and write your answer in the space 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.

6. Alice has a 12m ribbon. She cut it into shorter pieces of $\frac{2}{5}$ m each.

How much did Alice receive if she sold all the $\frac{2}{5}$ m ribbons at \$0.55 each?

Ans:_____{3]

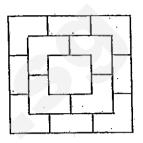
7. Danny has read 368 pages of a book. He plans to finish reading the rest of the book in the next 9 days by reading the same number of pages each day. If he completes 36% of the book in the next 6 days, how many pages are there in the book?

Ans:_____[3]

8. The figure below is the top view of a solid figure. The solid figure is made up of 3 layers of identical cubes with a single cube at the top layer.

(a) How many cubes are there in the solid figure?

(b) If the solid figure has a volume of 896 cm³, find the length of each cube.



Ans/.	(a)	 	 <u>:</u> ,	[1]
2				

9. Allison kept 1075 beads into four jars, labelled A, B, C and D. Jar A had the least number of beads and Jar D had the most. The difference in the number of beads between Jar A and the number of beads in the other jars were 35, 55 and 85. How many beads are there in Jar A?

10. 26 scouts spread themselves out evenly along a hiking route. A scout can be found after every $\frac{3}{5}$ km of the route. Find the distance between the first and the last scout.

	•
Ans:	[3]

11. Mr Lee had 12 tins of biscuits. At first, each of the tins contained the same number of biscuits. He took 33 biscuits from each tin. After that, the total number of biscuits left in the 12 tins was equal to the total number of biscuits in 3 of the tins at first. What was the number of biscuits in each tin at first?

Ans:		[3]
------	--	-----

12. A shop sells a file for \$2.80. It gives a 25% discount for every 4 files bought during a sale. Hatta paid \$154 for some files during the sale, what was the most number of files he bought?

13. I have some red and blue counters in a box.

I add in 20 red counters, the ratio of my red counters to my blue counters becomes 2:3.

Then I add in another 60 blue counters, the ratio of my red counters to my blue counters becomes 1:3.

How many counters do I have in the box at first?

Ans:	<u>.</u> _	4 J
		-

14. I do not have enough savings now to buy a bag. If I increase my savings by 30%, I would need another \$1. If I increase my savings by 40%, I would have \$34 more than I need. What is the cost of the bag?

Ans:____[4]

15. The ratio of Glen's beads to Helen's beads to Liz's beads is 6:9:11. If Glen's beads is reduced by 10% and Helen's beads is increased by 10%, the new total number of beads that the three of them have is 4734. Find the number of beads that Liz has.

Peter had some stamps. He lost $\frac{2}{3}$ of them and gave $\frac{1}{4}$ of the remainder to Ali. After that, his brother gave him 120 stamps.

The ratio of the number of stamps he had at first to the number of stamps he

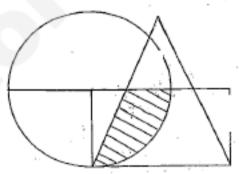
had at the end was 4:3.

How many stamps did Peter have at the end?

Ans:	151
M19-	131

17. The figure below consists of a circle, a rectangle and an isosceles triangle overlapping one another. The ratio of the area of the circle to the area of the triangle to the area of the rectangle is 7:5:3. ¹/₄ of the triangle is shaded.

The overlapped area of the circle and the triangle is $\frac{1}{4}$ the area of the circle. The overlapped area of the circle and the rectangle is $\frac{1}{4}$ the area of the circle. What percentage of the figure is unshaded? Give your answer in 2 decimal places.



Ans: _____[5]

18. There were some ten-cent coins and fifty-cent coins in a piggy bank. The number of ten-cent coins in the piggy bank was $\frac{1}{2}$ the number of fifty-cent coins. Ahmad took out 5 fifty-cent coins and exchanged them for ten-cent coins. Then he put the money back into the piggy bank. The number of fifty-cent coins became $\frac{5}{8}$ the number of ten-cent coins. How much money was there in the piggy bank?

Ans: (5)

End of Paper 2
Remember to check your work.



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: NAN HUA

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

											-	040	043	014	015
		5	\sim	Ω	05	06	07	08	1 09	010	Q11	QIZ	Q13	Q1 4	Q15
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1	• 7.	1	и	ા વ	3	2	3	3	3	. 4	1	3	լ ե	3	4
		4	14	ן ט	J	-	J.								

16)0.105

17)1/4

18)600 stickers

19)28%

20)1:2

21)40cm

22)\$20

23)120°

24)16:10:5

25)60 day(s)

26)12 times

27)\$58.50

28)33 curry puffs

29)1/2

30)200%

Paper 2

1)\$183.20÷\$11= 16durians

2)89 - 9 = 80

 $80 \div 2 = 40$

40 + 9 = 49

3)100 - 66 = 34

66 - 34 = 32

32u→288

1u→9

100u→900 children

page 1

average
Ans: 10 kites

6)12/1÷2/5 = 12/1
$$\times$$
 5/2 = 30
30 \times \$0.55 = \$16.50

7)
$$3/50 \times 9/1 = 27/50$$

 $368 \div 23 = 16$
 $16 \times 50 = 800$

$$10)3/5$$
km = 600 m
 $26-1=25$
 $25 \times 600 = 15000$
 15000 m = 15 km

13)80

$$110 + 99 + 54 = 263$$

 $4734 \div 263 = 18$
 $1u \rightarrow 18$
 $110U \rightarrow 1980$

18)
$$16u - 40 = 5u + 125$$

 $11u - 40 = 125$
 $11u = 165$
 $1u \rightarrow 15$
 $2u \rightarrow 30$
 $30 \times 50c = 1500c$
 $= 15
 $$15 + $1.50 = 16.50



NANYANG PRIMARY SCHOOL FIRST CONTINUAL EXAMINATION 2013

PRIMARY 6 MATHEMATICS PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	Paper 1 Total:
Booklet B	/ 20	/ 40
Name:	()

Class: Primary 6 ()

Date:

Parent's Signature:

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

PAPER 1 (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)

- 1 Simplify 6a + 18 4a 12.
 - (1) 2a-6
 - (2) 2a+6
 - (3) 2a + 30
 - (4) 10a-6
- 2 Find the value of 3412 + 100.
 - (1) 0.3412
 - (2) 3.412
 - (3) 34.12
 - (4) 341.2

- 3 Find the value of $72 8 \div 2 \div (3 \times 8 \div 4)$.
 - (1) 38
 - (2) 62
 - (3) 70
 - (4) 74
- Which one of the following fractions is not the equivalent fraction of $\frac{3}{7}$?
 - (1) $\frac{6}{14}$
 - (2) $\frac{15}{35}$
 - (3) $\frac{24}{49}$
 - (4) $\frac{27}{63}$

- Find the value of $\frac{2}{5} + \frac{6}{10}$.
 - (1) 1
 - (2) $\frac{8}{5}$
 - (3) $\frac{8}{10}$
 - $(4) \frac{8}{15}$
- The length of a string is $1\frac{1}{4}$ m. Find the total length of 8 such strings.
 - (1) $\frac{5}{32}$ m
 - (2) $6\frac{1}{2}$ m
 - (3) 2 m
 - (4) 10·m

- 7 Express 0.075 as a percentage.
 - (1) 0.75%
 - (2) 7.5%
 - (3) 75%
 - (4) 750%
- 8 Find the sum of 0.25 and 0.4.
 - (1) 0.15
 - (2) 0.29
 - (3) 0.65
 - (4) 4.25

- A jug can hold $\frac{7}{8}$ *l* of orange juice when it is completely full. What is the amount of orange juice in the jug when it is $\frac{2}{3}$ full?
 - (1) $\frac{7}{12}$ *l*
 - (2) $\frac{7}{24}$ 1
 - (3) $2\frac{5}{8}$ 1
 - (4) $5\frac{1}{4}$ 1
- The table shows the scores that four students obtained for their English test. Find the student whose score was the closest to the average score of the 4 students.

Name	Score
Joe	50
Kumar	85
Caili	45
Halim	100
Total	280

- (1) Joe
- (2) Kumar
- (3) Caili
- (4) Halim

11 What is the missing number in the box?

- (1) 0.0123
- (2) 0.123
- (3) 1.23
- (4) 12.3
- The number of beads in Bag B is 4 times that of Bag C. The number of beads in Bag A is $2\frac{1}{2}$ times that of Bag B. If there are 5 beads in Bag C, how many beads are there in Bag A?
 - (1) 10
 - (2) 25
 - (3) 40
 - (4) 50

- There were 50 apples in a box. Mrs Lee put in 12 more apples. What was the percentage increase in the number of apples?
 - (1) 6%
 - (2) 24%
 - (3) 80%
 - (4) 125%
- 72 pupils are divided into groups to work on a Social Studies project. Each group is made up of 2 or 6 pupils. If the numbers of groups of 2 and 6 pupils are the same, how many groups are there altogether?
 - (1) 9
 - (2) 12
 - (3) 18
 - (4) 36

- The average of 11 numbers is 9. If the sum of the first 10 numbers is 85, find the 11th number.
 - (1) 5
 - (2) 14
 - (3) 76
 - (4) 731

Nam	e:	(•	Class: Pr 6 ()
P6 C	CA1 2013		,		
PAP	ER 1 (BOOKLET B)				
provi	stions 16 to 25 carry 1 mided. For questions which	nark each. Wri h require units,	te your a give you	answers in the ur answers in	e spaces the units
state	:a.			(1) marks)
16	Find the value of $24 - \frac{\xi}{2}$	$\frac{5x}{3}$ when $x = 6$.			
	•.*		Ans:	. •	
:_					
17	Find the value of 7492 -	- 3489 + 219.		·	
			·		
			Ans:_		- :

18 Find the value of $49 \times 3 + 55 + 5$.

Ans:_____

19 Round off 29 992 to the nearest hundred.

Ans:_____

20 Express $2\frac{7}{8}$ as a decimal and leave your answer to 2 decimal places.

10

Ans:_____

.

21 Find the value of $12.24 \div 6$.

Ans:

22 What is $\frac{1}{4}$ of $\frac{3}{5}$ km? Express your answer in metres.

Ans: m

23 Find the value of $\frac{4}{5} \div \frac{1}{10}$.

Ans:_____

24 What is 80% of 20?

•	Ans:
25	70% of a number is 210. What is the number?
, :	

Ans:_

spac	e provided for each question and write your answers in the spaces ded. For questions which require units, give your answers in the units d.
ř	(10 marks)
., .	
26	Joe had \$15. Ali had q times as much money as Joe. Ravi had \$3 q more than Ali. How much did the 3 boys have altogether? Express your answer in terms of q .
· · · · · · · · · · · · · · · · · · ·	Ans: \$
27	Aishah spent 15% of her money on a belt and 40% of it on a handbag. She spent the rest of her money on a dress. How many percent more did she spend on the dress than on the belt?
	Ans:%

Lily and Shane each has a sum of money. If Shane spends $\frac{3}{5}$ of his money and Lily spends $\frac{3}{7}$ of her money, the two children will have the same amount of money left. What fraction of the total sum of money is Shane's money?

Ans:	

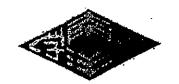
The table shows the number of books borrowed by the pupils from a class. Find the average number of books that were borrowed by the pupils.

Number of books	Number of pupils	
0	15	
1	30	
2	15	

		•		
	•	Ans:	· ,	

David, Kumar and Irfan go to the gym on 2nd June and rest on the next day. After the rest day, David goes to the gym every 2 days, Kumar goes there every 3 days and Irfan goes there every 4 days. When will they next meet in the gym again?

_	
Ans:	



NANYANG PRIMARY SCHOOL FIRST CONTINUAL EXAMINATION 2013

PRIMARY 6 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/100

Name:)	
Class: Primary 6 ()		
Date:		•	
Parent's Signature:			
DO NOT OPEN THIS B	OOKLET UNTIL	. YOU ARE TOL	D TO DO SO
FOLLOW ALL INSTRUC	CTIONS CAREF	TULLY.	
ANSWER ALL QUESTI	ONS.		
VOU ARE ALLOWER T	O USE A CALC	III ATOR	

PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Gina bought $2\frac{3}{4}$ *l* of milk. She drank $\frac{1}{5}$ *l* of milk. How many litres of milk were left?

Ans:_____

2 Mr See used a total of 50 m of wire to make 12 lanterns. What was the average length of wire that Mr See used for each lantern? Give your answer correct to 1 decimal place.

Ans: m

3	The usual price of a wallet was \$200. During the Great Singapore Sale, a discount of 30% was given. How much was the discount?
, 1393 (Heller	
,	Ans: \$
4	Mrs Kaur bought some standing fans for her tuition centre at an average price of \$58. If she bought another standing fan which cost \$94, the average price would become \$64. Find the number of standing fans Mrs Kaur bought.
	Ans:

There was an equal number of blouses and skirts sold. The blouses were priced at \$12 each and the skirts were priced at \$20 each. The total amount collected from the sale was \$2048. How many blouses were sold?

Ans:		

each The n	ques numb	ions 6 to 18, show your working clearly in the space provided for stion and write your answers in the spaces provided. ber of marks available is shown in brackets [] at the end of each or part-question.	٠.
quo		(50 marks)	
<u> </u>			
6	(a)	Susie spent 5 minutes less than p hours to answer 50 questions in a test. How many minutes did she spend to answer each question? Express your answer in terms of p .	·
	(b)	If $p = 4$, how many minutes did she spend to answer each question?	•
•			
		Ans: (a)[2]	
		(b)[1]	
7	The	x A contains ten-dollar notes while Box B contains five-dollar notes. ere are 450 more notes in Box B than in Box A. If the total amount money in Box A and Box B is \$7500, how many ten-dollar notes are re?	
		Ans:[3]	

The number of boys in a basketball court was $\frac{5}{4}$ of the number of girls in a hall. When 84 boys left the basketball court, the number of boys in the basketball court became $\frac{2}{3}$ of the number of girls in the hall. How many boys were there at the basketball court at first?

Ans:_____[3]

9 A machine can cut a metal rod into 3 equal pieces with two cuts in 3.96 minutes. At this rate, how long will the machine take to cut the metal rod into 8 equal pieces? Give your answer to the nearest minute.

Ans:_____[3]

10		ocket money than Carol and A If Ali spent \$36, how much ether?	
	**		
		· · ·	
		Ans:	[3]
1		and girls in a bus. When 15 of the boys in the bus increa	
1	the bus, the percentage	and girls in a bus. When 15 of the boys in the bus increasen were in the bus in the begin	sed from 25% to
1	the bus, the percentage	of the boys in the bus increa	sed from 25% to
1	the bus, the percentage	of the boys in the bus increa	sed from 25% to
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1	the bus, the percentage	of the boys in the bus increa	sed from 25% to
1	the bus, the percentage	of the boys in the bus increa	sed from 25% to

12	Billy and Arifin have to paint a three-room flat. Billy can paint twice as fast as Arifin. They will take a total of 8 hours to paint the entire flat. How long will Billy take to paint the whole flat if he paints the house by himself?

Ans:	[4]

13 Isabelle and Agnes decided to buy and share the cost of their father's birthday present. Isabelle contributed \$18 which was 25% of her savings. Agnes contributed 60% of her savings. The amount of Agnes' savings left was 0.5 as much as what Isabelle had left. How much did Agnes contribute to buy the present?

Ans:	[4]
A19.	[.,1

14 If Siva wants to buy 3 pens and 5 diaries, he will be short of \$6. If he buys 5 pens and 3 diaries, he will have \$4 left. Given that a pen costs \$1.20, what is the maximum number of diaries Siva can buy with \$20?

Ans:		_[4]

Bookworm Library has 5510 members. $\frac{2}{5}$ of the adults are men. $\frac{2}{3}$ of the children are boys. There are 2420 male members. How many adults are there?

Ans:_____[4]

There were some marbles in a container. Leroy took out half of them plus 3 more. Then Olivia took out $\frac{1}{3}$ of the remaining marbles plus 2 more. Finally, Ryan took out $\frac{1}{4}$ of the remaining marbles plus 5 more. In the end, there were only 25 marbles in the container. How many marbles were in the container at first?

Ans:	[5]

Alma and Mila went shopping with some money. Alma had \$72 more than Mila at first. Alma spent $\frac{1}{6}$ of her money on a brooch while Mila spent $\frac{1}{4}$ of her money on a dress. After that, Alma had \$84 more than Mila. How much money did Alma have at first?

Ans:[5]

At first, Joan had \$400 more than Thana. Joan gave 60% of her money to Thana. After that, Thana gave 25% of her money to Joan. In the end, Thana had \$160 more than Joan. How much money did Thana have at first?

Ans:	 [5]	

END OF PAPER



MSWER SHEET

EXAM PAPER 2013

SCHOOL: NANYANG

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

					_										T
E	Ω 1	Ω2	O 3	04	05	06	07:	08	09	Q10	Q11	Q12	Q13	Q14	Q15
L	7 ÷	QZ_		2.	_ 25				-3-	_			_	7	. 2
1	2	3	4	3	. 1	4	2·	3	1	2	2	4	L 4	3	2

16)14

17)4222

18)158

19)30000

20)2.88

21)2.04

22)150m

23)8

24)16

25)300

26)(15+33q)

27)200%

28)(10/17)

29)1

30)15th June

Paper 2

 $1)2^{3}/4 - 1/5 = 211/20$

2)50÷12≈4.2m

 $3)30/100 \times $200 = 60

4)\$64 - \$58 = \$6

\$94 - \$64 = \$30

 $$30 \div $6 = 5$

5)\$12 + \$20 = \$32 \$2048÷\$32 = 64

page 1

6)a)(60p - 5)
$$\div$$
 50 = $\frac{60p - 5}{50}$

b)
$$60 \times 4 = 240$$

 $240 - 5 = 235$
 $235 \div 50 = 4.7$ minutes

$$8)2/3 = 8/12$$

 $5/4 = 15/12$
 $15-8=7$
 $84 \div 7 = 12$
 $12 \times 15 = 180$

9)3.96
$$\div$$
2 = 1.98
1.98 x 7 \approx 14 minutes

10)p→parts U→units

$$6-3=3$$
3units \rightarrow 15
1unit \rightarrow 5
8units \rightarrow 40

12)8 x 3 = 24
24
$$\div$$
2 = 12 hours

Ans: \$40.50

Ans: 3

$$2u+2p\rightarrow 2420$$

 $3u+1p\rightarrow 3090$
 $1u-1p\rightarrow 670$
 $4u\rightarrow 3760$
 $1u\rightarrow 940$

$$30 \div 3 = 10$$

 $10 \times 4 = 40$

16)25 + 5 = 30

$$40 + 2 = 42$$

$$42 \div 2 = 21$$

$$21 \times 3 = 63$$

$$63 + 3 = 66$$

 $66 \times 2 = 132$



Rosyth School First Continual Assessment 2013 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 1 March 2013	Parent's Signature:
Total Time for Booklets A and	d B : 50 minutes

PAPER 1 (Booklet A)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

^{*} This booklet consists of 7 pages (including this cover page) ,

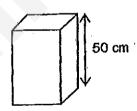
This paper is not to be reproduced in part or whole without the permission of the Principal.

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. Last year, the number of tourists who visited the zoo was 278 600 when rounded off to the nearest hundred. Which of the following is most likely the actual number of tourists?
 - (1) 278 549
 - (2) 278 649
 - (3) 278 659
 - (4) 278 709
- A bag costs \$120 before GST. What is the cost of the bag inclusive of 7% GST?
 - (1) \$111.60
 - (2) \$128.40
 - (3) \$140.40
 - (4) \$204.00
- 3. Simply 5e + 2 2e + 9 e.
 - (1) 3e 11
 - (2) 8e + 7
 - (3) 7-8e
 - (4) 11 + 2e
- 4. Find the value of $\frac{3m+6}{2}$ when m=2.
 - (1) $5\frac{1}{2}$
 - (2) 6
 - (3) 9
 - (4) 12

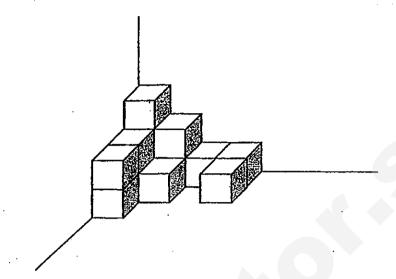
- 5. A yellow ribbon is k cm long. A blue ribbon is twice as long as the yellow ribbon. What is the total length of the yellow and blue ribbons?
 - (1) k cm
 - (2) 2k cm
 - (3) 3k cm
 - (4) 4k cm
- 6. The number of oranges is $\frac{3}{5}$ of the number of apples. What is the ratio of the number of apples to the total number of oranges and apples?
 - (1) 2:3
 - (2) 3:2
 - (3) 2:5
 - (4) 5:8
- 7. The box shown below is fully packed with 1-cm cubes. There are 400 cubes in it altogether.



What is the smallest possible base area of the box?

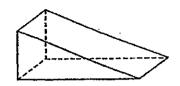
- (1) 8
- (2) 2
- (3) 9
- (4) 4

8. Siva stacked some 1-cm cubes as shown in the diagram below.
How many more cubes would he need to make a 4 cm by 4 cm by 4 cm solid?

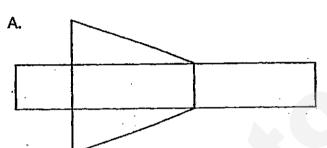


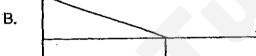
- (1) 13
- (2) 23
- (3) 35
- (4) 51
- 9. Tim and Ann had a total of 420 marbles. Tim had $\frac{2}{5}$ of what Ann had. How many more marbles did Ann have than Tim?
 - (1) 60
 - (2) 120
 - (3) 180
 - (4) 300

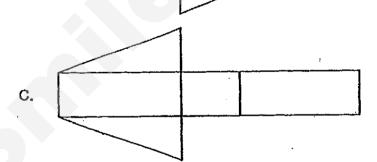
10. Study the prism shown below.

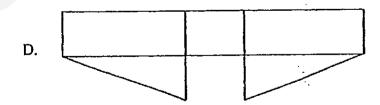


Which of the following are nets of the prism?









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

- 11. Carrie is thrice as old as her daughter's age now. Her daughter will be 21 years old in 8 years' time. What is their total age now?
 - (1) 13
 - (2) 39
 - (3) 52
 - (4) 76
- 12. Margaret has some green, blue and red beads. $\frac{3}{4}$ of the beads are green while $\frac{3}{5}$ of the remaining beads are blue. What fraction of the beads is red?
 - (1) $\frac{1}{10}$
 - (2) $\frac{3}{20}$
 - (3) $\frac{3}{10}$
 - (4) $\frac{2}{5}$
- 13. The ratio of the mass of Ken to the mass of Jane is 5:3. The ratio of the mass of Jane to the mass of Rani is 4:5. If Rani weighs 60 kg, what is the mass of Ken?
 - (1) 12 kg
 - (2) 36 kg
 - (3) 48 kg
 - (4) 80 kg

- 14. Alice, Ben and Connie shared \$640. Ben received 40% more than Alice. Connie received 20% less than Alice. How much more did Ben receive than Connie?
 - (1) \$40
 - (2) \$120
 - (3) \$128
 - (4) \$440
- 15. Ramu, Kaijie and Liling shared some money. The total amount of money Ramu and Kaijie received was \$28. The total amount of money Ramu and Liling received was \$60. Liling's amount of money was thrice as much as Ramu's amount of money. What was the total amount of money the three children share?
 - (1) \$13
 - (2) \$32
 - (3) \$64
 - (4) \$73

(Go on to Booklet B)



Rosyth School First Continual Assessment 2013 Primary 6 mathematics

Name:	Register No
Class: Pr 6	
Date: 1 March 2013	Parent's Signature:
Total Time for Booklets A	and B : 50 minutes
	PAPER 1 (Booklet B)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are not allowed to use a calculator
- 4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

^{*} This booklet consists of 8 pages (including this cover page)

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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.

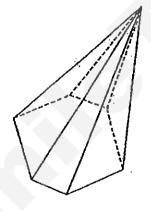
(10 marks)

Below shows an equilateral triangle. 16.



What fraction of its perimeter is the length of its one side?

How many triangular faces are there in the solid figure shown below? 17.



Ans:

What is the missing value in the box? 18.

$$176 - 65 \div 5 - 3 \times 9 = ?$$

Ans:

19.	Evaluate the following expression given that $x = 3$.
	Ans:
20.	A wholesaler receives a shipment of 96 000 mobile phone covers. He has to repack them into boxes with 600 covers in each box. How many boxes does he need to have?
	Ans:
21.	The diagram below shows the net of a cube with a perimeter of 98 cm. What is the volume of the cube?

22.	Mark's height is $\frac{3}{4}$ of Rachel's height. Gina's height is half the height of Mark.
	What is the ratio of Rachel's height to Gina's height to Mark's height?
	· · · · · · · · · · · · · · · · · · ·
	Ans:
23.	Ben bought <i>m</i> pens at 40 cents each. He gave the cashier \$50. What is the amount of change he received from the cashier? Express the answer in terms of <i>m</i> .
	Ans: ¢
	Ans:¢
24.	The length and breadth of a rectangle are 4w cm and 5 cm respectively. Its area is 180 cm ² . Find the value of w.
	·
	•
	A
	Ans:

25. An Art lesson lasts $\frac{2}{3}$ hour. An Art trainer teaches from 0800 to 1300 with an hour break daily. How many lessons does the Art trainer teach daily?

Ans:

	tions which require units, give your answers in the units stated. (10 marks)
3.	The ratio of the perimeter of a triangle to the perimeter of a square is 5:6. The perimeter of the square is 8 cm longer than the perimeter of the triangle. Find the area of the square.
	Ans:cm
7.	In a garden, 30% of the flowers are lilies, 25% of them are orchids and the rest of them are hibiscus. If there are 90 more hibiscus than lilies, how many flowers are there altogether?
	Ans:

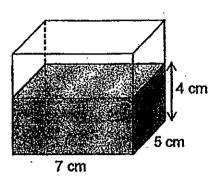
28. A ribbon which was $\frac{3}{4}$ m long was cut equally into a few pieces. Each piece was $\frac{1}{8}$ m long. How many cuts were made?

Ans:_____

29. A T-shirt cost 3 times as much as a pair of shorts. Ally spent \$96 on 2 T-shirts and 2 pairs of shorts. How much more did a T-shirt cost than a pair of shorts?

Ans: \$ _____

30. The tank below is $\frac{2}{3}$ filled with water. Minah wants to add some water to fill it to its brim. What volume of water will she need to add?



Ans: _____cm³

End of Paper



Rosyth School First Continual Assessment 2013 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 1 March 2013	Parent's Signature:
Time: 1 h 40 min	
	

PAPER 2

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

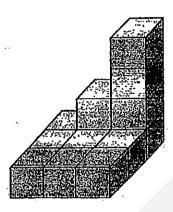
^{*} This booklet consists of 16 pages (including this cover page)

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space Do not write provided for each question and write your answers in the spaces provided. For in this space questions which require units, give your answers in the units stated.

(10 marks)

The solid figure shown below is made up of 1-cm cubes. The whole solid including the base, is painted green. How many cubes have two of their faces painted green?



The ratio of the number of books to the number of magazines is 9:5. After 2. half of the magazines were given away, there were 92 books and magazines left. How many books and magazines were there at first?

Ans:

3. Mr Tan had 495 apples and pears at his fruit stall. $\frac{1}{4}$ of the apples was equal to $\frac{2}{3}$ of the pears. He packed all the apples into packets of 3. Each packet was sold at \$1. How much would Mr Tan receive after he sold all his apples?

Do not write in this space

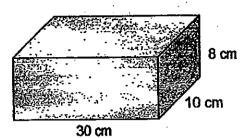
Ans:\$_____

4. 250 seats in a hall were filled. Twenty minutes later, 430 seats were filled. What was the percentage increase in the number of seats filled during the twenty-minute period?

Ans: %

5. The container shown below measuring 30 cm by 10 cm by 8 cm was completely filled with water. The water was used to fill 3 kettles with each of them having a capacity of 250 cm³. What was the height of the water left in the container after all the kettles had been completely filled?

Do not write in this space



Ans: Cf

Questions 6 to 18, 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)

Do not write in this space

6. Gina had 56 more stamps than John. When John gave Gina 22 of his stamps, Gina had 5 times as many stamps as John. How many stamps did John have at first?

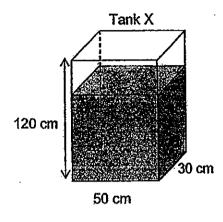
Ans:_____[3m]

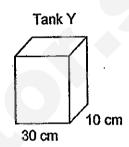
7. Mrs Lim baked some chocolate and strawberry cookies. The total of all the strawberry cookies and $\frac{3}{8}$ of the number of chocolate cookies was 430. The total of $\frac{1}{4}$ of the number of strawberry cookies and $\frac{1}{2}$ of the number of the chocolate cookies was 192. How many strawberry cookies did Mrs Lim bake?

Ans: [3m]

8. Tank X measures 50 cm by 30 cm by 120 cm. It was $\frac{2}{3}$ filled with water. The water was then poured from Tank X to Tank Y until the height of the water level in Tank X became thrice as high as that in Tank Y. Find the volume of water in Tank Y. Express your answer in litres.

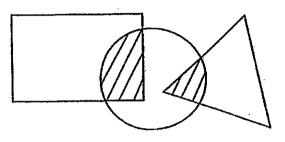
Do not write in this space





Ans:_____[3m]

9. The diagram below, not drawn to scale, is made up of a rectangle, a circle and a triangle. The ratio of the area of the rectangle to the area of the circle to the area of the triangle is 8:6:5. If $\frac{1}{4}$ of the rectangle and $\frac{1}{5}$ of the triangle are shaded, what is the ratio of the shaded areas to all the unshaded areas?



A		[3m
Ans:		_FOLIT

10. 3 years ago, the total age of Timothy and his brother was 12y years old. Timothy is y years old now.

(a) Find the age of Timothy's brother now.

(b) Given that y = 3, find the age of Timothy's brother now.

Do not write in this space

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

Study the pattern below and answer the following questions. 11.



- Pattern 1
- (a) How many triangles are there in Pattern 5?
- (b) How many triangles are there in Pattern 20?
- (c) How many triangles are there in Pattern n?

Ans: (a)	[1m
	 _

12. Alex and Muthu shared a box of erasers in the ratio 2 : 3. After Muthu gave $\frac{3}{4}$ of his share to Alex, Alex had 70 more marbles than Muthu.

- (a) How many marbles did Muthu give to Alex?
- (b) How many marbles did they have altogether?

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

13. Mary had some beads. She used 60% of them to make 14 necklaces. She then used 25% of the remaining beads to make bracelets. She had 84 beads left.

- (a) How many beads did she have at first?
- (b) How many beads did she use for each necklace?

Ans: (a))	[2m
71.3		ľOm

14. Maggie had a collection of seashells, bookmarks and ribbons. She had 76 seashells. 20% of her collection were bookmarks. She had 44 fewer bookmarks than ribbons.

- (a) What was the total number of seashells, bookmarks and ribbons?
- (b) Maggie was given some bookmarks and her total collection of seashells, bookmarks and ribbons increased by 25%. What percentage of her total collection were bookmarks after that?

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

15. Marilyn had some pairs of boots. She sold them at her shop at \$69.90 each. Customers who bought 2 pairs of the boots were given a discount of \$29.90 for the second pair. She collected \$2556.80 and sold 8 pairs at a discounted rate. How many customers bought only one pair of boots?

Do not write in this space

Ans:_____[4m]

16. Tap A could fill half of an empty tank in 2 minutes and Tap B could fill the same empty tank in 6 minutes. Peter wanted to fill the tank completely. In the first minute, only Tap A was turned on. In the second minute, both taps were turned on. How long would it take to fill the tank completely?

Do not write in this space

Ans: [4m]

17. Ken bought a dictionary, a reference book and a storybook. The cost of a dictionary and a reference book is \$85. The cost of a reference book and a storybook is \$64. The cost of the dictionary is 4 times as much as the cost of the storybook.

- (a) What is the cost of one storybook?
- (b) If Ken gave the cashier a \$100 note, how much change did he receive?

Ans: (a)	[2m]
(b)	[3m]

- 18. School A had a fund-raising activity. $\frac{2}{3}$ of the money was raised by Pri 6 classes and the rest was raised by Pri 3 classes. $\frac{5}{12}$ of the money raised by the Pri 6 classes was raised by the boys and $\frac{1}{3}$ of the money raised by the Pri 3 classes was raised by the boys. All the girls raised a total of \$4950.
- Do not write in this space

- (a) How much money did all the pupils raise altogether?
- (b) What is the difference between the sum of money raised by all the boys and all the girls?

Ans: (a)	[3m]
(b)	[2m]

End of Paper



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: ROSYTH PRIMARY SCHOOL

LEVEL: PRIMARY 6
SUBJECT: MATHEMATICS

TERM : CA1



Booklet A

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

16. 1/3

17. 6

18.136

19.10

20, 160

21.343

22. 8:3:6

23. 5000-40m

24.9

25.6

26. 144

27. 600

28. 5

29.24

30.70

Paper 2

1. 2cubes

2. 18+5=23

92÷23=4

18+10=28

28x4=112

3. $\frac{1}{4}$ a = $\frac{2}{3}$ p

2/8 a = 2/3p

8+3=11

495÷11=45

45x8=360

360÷3=120

4. 430-250=180

180/250x100%=72

5. 30x10x8=2400

250x3=750

2400-750=1650

1650÷30÷10=5.5

6. 4u --- 22+50+22=100

1u --- 25

25+22=47

7. 4S+3C=430

1S +4C=192

----# 4S+16C=768

42 | 100-70

13C = 338

1C=26

1S=192-4x26=88

4S = 4x88 = 352

8. $2/3 \times 120 \times 50 \times 30 = 120000$

3hx50x30+hx30x10=4800h

4800h=120000

h=25

25x30x10=7.5L

9. R:C:T

8:6:5

R---- 2:6

T---- 1:4

C----3:3

S: Un

3:13

10. A. 12y+6-y = 11u+6

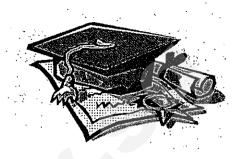
B. 11x3+6=39



 $90/250 \times 100\% = 36\%$

$$\frac{1}{4}+\frac{1}{6} = \frac{5}{12}$$

(1-1/4)÷5/12 = 1.8mins
1.80+1 = 2.8mins



3u---85-64=21 1u --- 7 B) D+R+S=85+7=92 100-92=8 18. A) 4+7 = 11u 1u ---- 4950÷11=450 18u ---- 450x18=8100

B) All boy --- 5+2=7u All girl --- 4+7=11u 11u -7u = 4u 4u --- 1800





SEMESTRAL ASSESSMENT 1 (2013) PRIMARY 6

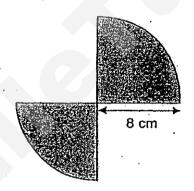
MATHEMATICS

PAPER 1 Booklet A

Thursday	8 May 2013	50 [°] min
INSTRUCTIONS TO PUPILS		
DO NOT TURN OVER THE P	AGES UNTIL YOU ARE	TOLD TO DO SO
Follow all instructions carefull	y. ·	
There are 15 questions in this	booklet.	
Answer ALL questions.	·	
You are <u>not</u> allowed to use a	calculator.	•
Name:	()	
Class : 6.()		
Parent's Signature:		
This question paper consist ACS(J) P6 SA1 Maths 2013	s of 8 printed pages. (In	clusive of cover page

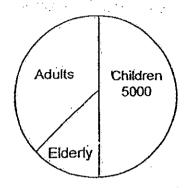
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer sheet. (20 marks)

- 1. $\frac{3}{5} \div \frac{4}{5} = \frac{1}{8}$. What is the missing number in the fraction?
 - (1) 3
 - (2) 4
 - (3) 5
 - (4) 6
- 2. The figure below is made up of 2 identical quadrants. What is the area of the shaded part? Leave your answer in terms of π .

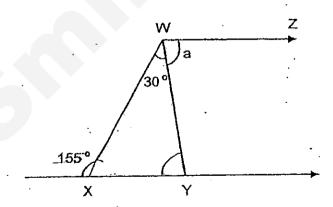


- (1) $8\pi \text{ cm}^2$
- (2) $16\pi \text{ cm}^2$
- (3) $32\pi \text{ cm}^2$
- (4) $64\pi \text{ cm}^2$

3. The pie chart shows the number of people who visited the Universal Studio last month. The number of elderly was $\frac{1}{4}$ the number of children. What was the number of adult who visited the Universal Studio last month?

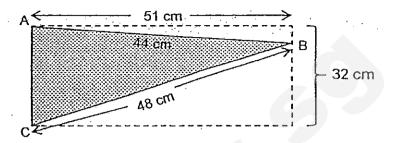


- (1) 1250
- (2) 2750
- (3) 3750
- (4) 4250
- 4. WXY is a triangle. WZ // XY. Find ∠a.

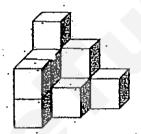


- (1) 55°
- (2) 60°
- (3) 120°
- (4) . 125°

- 5. What is the area of the triangle ABC as shown in the figure?
 - (1) 704 cm²
 - (2) 768 cm²
 - (3) 816 cm²
 - (4) 1632 cm²



- 6. The figure below shows 11 identical cubes glued together to form a solid. The whole solid, including the base, is then painted green. How many cubes have exactly four of their faces painted green?
 - (1) 5
 - (2) 6
 - (3) 3
 - (4) 4



7. Which one of the following shapes cannot form tessellation(s)?

(1)



(2)



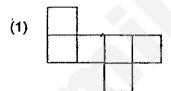
(3)

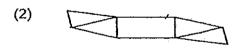


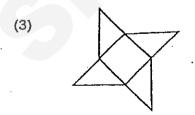
(4)

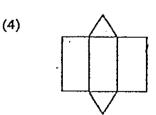


- 8. Jason and Sean shared \$105 in the ratio of 2 : 3. How much more money did Sean get than Jason?
 - (1) \$1
 - (2) \$21
 - (3) \$42
 - (4) \$63
- 9. 4 apples and 6 oranges cost \$4. How much does 10 such apples and 15 oranges cost?
 - (1) \$8
 - (2) \$10
 - (3) \$12
 - (4) \$14
- 10. Which of the following is not a net of a solid?









11. Peter uses four letters W,X,Y and Z to form a pattern. The first 18 letters are shown below. Which letter is in the 165th position?

W X Ý Z X W W X Ý Z X W W X Ý Z X W?

1st 18th 165th

- (1) W
- (2) X
- (3) Y
- (4) Z
- 12. $\frac{1}{5}$ of a circle is shaded. If the diameter of the circle is 10 cm, what is the area of the shaded part of the circle? (Take $\pi = 3.14$)
 - (1) 15.7 cm²
 - (2) 31.4 cm²
 - (3) 62.8 cm²
 - (4) 78.5 cm²

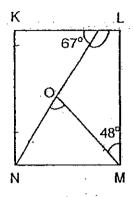
13. The rates of advertising in a magazine are as shown in the table below.

For the first 15 words	\$12.50
Every additional 5 words	\$2.50

Kendish has only \$50 and wishes to place an advertisement in the magazine, what is the maximum number of words he can have on his advertisement?

- (1) 15
- (2) 30
- (3) 75
- (4) 90
- The pupils in a class are divided equally into Team A and Team B. The ratio of the number of boys to the number of girls in Team A is 3: 1 and in Team B is 1:7. What is the ratio of the number of boys to the number of girls in the class?
 - (1) 1:1
 - (2) 3:7
 - (3) 1:2
 - (4) 7:9

15. KLMN is a rectangle. Find ∠NOM.



- (1) 23°
- (2) 42°
- (3) 71°
- (4) 96°

Anglo-Chinese School



SEMESTRAL ASSESSMENT 1 (2013) PRIMARY 6

MATHEMATICS

PAPER 1 Booklet B

Thursday

8 May 2013

50 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are <u>not</u> allowed to use a calculator.

Name : _____ (

Class: 6.(,

Parent's Signature:_____

Booklet	Possible Marks	Marks Obtained
À	20	
В	20	
TOTAL	40	

This question paper consists of 7 printed pages. (Inclusive of cover page)

ACS(J) P6 SA1 Maths 2013

B 1

Need a home tutor? Visit smiletutor.sg

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 100 – 440 + 8 × 2½ + 3 × 8

Ans:______

17. Write 5 hundred, 6 tens, 7 tenths and 8 thousandths as a decimal.

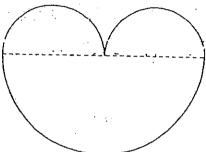
Ans:______

Ans:_____

18 The ratio of the volume of Cube A to the volume of Cube B is 5:1 if the volume of Cube A is 320 cm, what is the length of Cube B?

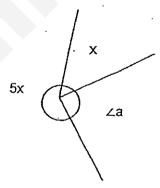
Ans:	 cm

The figure is made up of 2 identical small semicircles and a big semicircle. If the diameter of the small semicircle is 14 cm, fine the area of the figure show below. (Take $\sqrt{\frac{22}{7}}$)



Ans: _____cm²

20 If $\angle a = 2x$, find the value of x.



Ans: ______.º

21	The distances covered by run were 628m,808 m, 7.	4km and 12.6km.	what was the average	cipants during a chanty distance covered by	<i>(</i>
	these participants? (Give	your answers in i	netres)		
•		•			
٠					
			. Ans:	m	
22	John has 36 coins. $\frac{5}{12}$ of	them are twenty-	cent coin and the res	t are fifty-cent coins.	
vizir i	How much money does				•
	•				
		_	Ans: \$	•	
			7,110. 4		•
23 .	Express 5.60 as a percent	entage.		•	. ,
		• .			٠
		•	•		
•,					
	-				
	•				
		•	Ans:	%	
ACS	(J) P6 SA1 Maths 2013	В4			
	• •		Sub-total:		•
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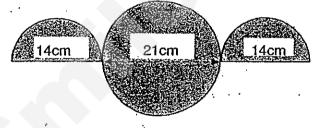
A piece of wire is bent side is 35 cm, what is t	to form the sides of a the length of the wire	a triangle in the ratio of ?	3:4:5 If the longe
	·	•	
	•		
		Ans:	cm
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		
The ratio of Ben's mas mass?	s to Noel's mass is 4		

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

At a dinner party, every 6th guest gets a cup and every 8th guest gets a mug. Linda was the first guest to receive both the cup and the mug. What was Linda's position as a guest at the party?

A	~ •		
Ans	5.		

27 The figure consists of 2 small semicircles and one circle with diameters 14 cm and 21 cm respectively. What is the perimeter of the shaded figure? (Take $\pi = \frac{22}{7}$)



Ans:	 cm

Sub-total:

ACS(J) P6 SA1 Maths 2013

B6

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		;
Ans:		

A box contains black, grey and white erasers. The ratio of the number of black erasers to the number of gray erasers is 2; 5. Half of the total number of the erasers is white. What is the ratio of the number of black erasers to the number of white erasers?

Ans:

Ali, William and jeremy shared \$300. Ali received $\frac{4}{5}$ of the amount of money William received and jeremy received 40% of the total amount of money. How much money did Ali receive?

END OF PAPER

ACS(J) P6 SA1 Maths 2013

В7

Ans: \$_____

Sub-total:

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Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 1 (2013) PRIMARY 6

MATHEMATICS

PAPER 2

Thursday

8 May 2013

1 hr 40 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name :		(
Class : 6.()	

Paper	Possible Marks	Marks Obtained
1.	40	
2	60	
TOTAL	100	

This question paper consists of 14 printed pages. (Inclusive of cover page)

ACS(J) P6 Maths SA1 2013

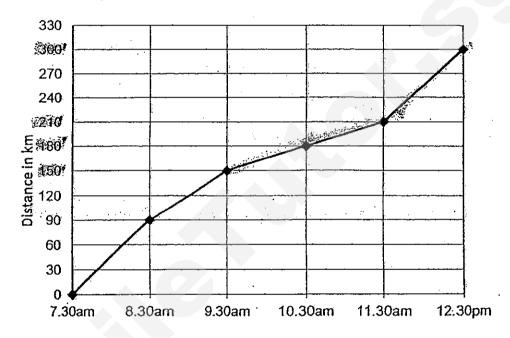
Parent's Signature:

1

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

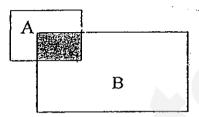
A motorist travelled from Town A to Town B. The line graph below shows the distance travelled by him from 7.30am to 12.30pm.



Find his average speed for the last 3 hours of his journey.

Ans:	

The figure is made up of rectangle A and rectangle B. $\frac{2}{9}$ of the rectangle B is shaded and $\frac{4}{7}$ of the rectangle A is unshaded. What is the ratio of the area of shaded part to the area of the unshaded part of the figure?



Ans: ____

3 Mr Lim had \$688 and Mrs Lim had \$326. How much more money must Mr Lim give to Mrs Lim such that he had \$120 more than Mrs Lim?

Ans: \$ _____

4 $\frac{3}{5}$ of Timothy's marks is equal to $\frac{1}{2}$ of Zachary's mark's. If Zachary has 8 more marks than Timothy, what is Timothy's marks?

Ans: _____

Jane wants to buy 10 boxes of pears but is short of \$21.20. If she buys 3 boxes of pears, she will have \$99.20 left. How much money does Jane have?

Ans: \$_____

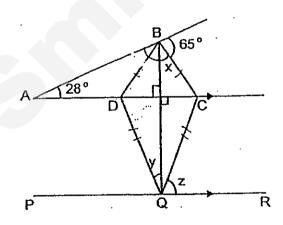
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

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

There were 25 questions in a Science quiz. 4 marks were awarded for each correct answer and 1 mark was deducted for each incorrect answer. Amy scored 60 marks. How many questions did she answer incorrectly?

Ans.		[3]

7 In the figure below, $AB \cap DB = BC$. DQ = CQ. Find the sum of the angles x, y and z.



Ans:[3
-------	---

Some girls sew a pillowcase for their home economics lessons.

Amelia used 800cm of cloth. She used $\frac{4}{5}$ as much cloth as the amount Blanca used. Clarris used $\frac{3}{10}$ of the amount of cloth that Blanca used. What was the average amount of cloth used by each girl?

Ans:		· • ·	[3]	Ì
	 _			

The table shows the number of fish in an aquarium.

Quantity

Type of fishes	Quantity-Sold
Goldfish	28
Guppy	50
Angelfish	22

- (a) What is the ratio of the number of goldfish to the total number of fish? Express your answer in simplest form.
- (b) How many more goldfish must be added so that the ratio of the number of goldfish to the total number of fish becomes 5: 14?

Ans: (a) _____[1]

(b) (21

ACS(J) P6 Maths Sax 2013

6

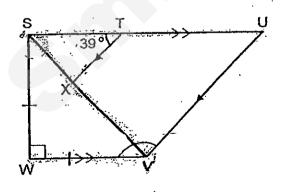
Sub-Total:

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There are blue, red and pink balls in a box. 40% of the balls are blue. The number of blue balls is 20 more than the number of pink balls. There are 50 red balls. What is the number of pink balls in the box?

Ans: _____ [3]

11 SVW is an isosceles triangle. SU // WV and TX // UV. Find ∠UVW.



Ans: ______[4]

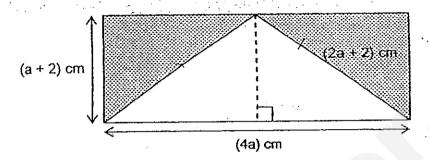
ACS(J) P6 Maths SA1 2013

7

Sub-Total Need a home tutor? Visit smiletutor.sg Jonathon had \$8 in his piggy bank at the end of last month. This month, his mother wanted to encourage him to save more money. For every \$6 Jonathon saved, his mother would give another \$3 to him. How much did Jonathon save on his own in this month if he had \$90 in his piggy bank at the end of this month?

Ans:	14

The figure below is made up of a rectangle and an isosceles triangle. The length of the rectangle is (4a) cm and its breadth is (a + 2) cm.



- a) Find the perimeter of the shaded part.
 Leave your answer in the simplest form in terms of a.
- b) If a = 2, find the perimeter of the shaded part.

Ans: a) ______[2]

(2)

14 Khamed and Arafin started cycling from the same place but in the opposite directions. After 4 hours, they were 174 km apart. Khamed's average cycling speed was 12.5 km/h slower than Arafin's. What was Arafin's average cycling speed?

Ans:	 [4]

15 The pattern below is made up of triangles.

Pattern	1 st	2 nd	3 rd

- (a) How many triangles are there in the 6th pattern?
- (b) How many triangles are there in the 51st pattern?
- (c) Which pattern is made of 569 triangles?

Ans: (a) ________[1]

(b) _____ [2]

(c) _____[2]

16 Ken spent $\frac{1}{4}$ of his money and an additional \$6 on a number of CDs. He then spent $\frac{3}{5}$ of the remaining money and an additional \$12 on magazines. Given that he was left with \$18, what fraction of his money was spent on the magazines?

Ans: ______[4]

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12

Sub-Total:

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Jason and his brother, Gabriel shared a number of stamps in the ratio of 3: 2. After Jason and Gabriel bought 3 stamps and 14 stamps respectively, the ratio became 6: 5. How many stamps did Gabriel have in the end?

Ans: ______[5]

ACS(J) P6 Maths SA1 2013

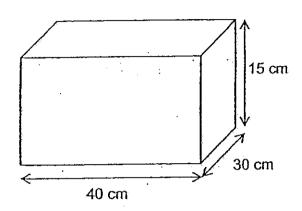
13

Sub-Total:

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A tank was 80% full of water. Ali poured 280 cm³ of water into the tank of water. (a) How much more water was needed to fill up the tank completely? 18

(b) Ali used a mug with a capacity of 160 mt to fill up the tank completely. How many mugs of water were needed to fill up the tank?



. Ans: (a)__

Exam Paper 2013 Answer Sheet

School: ANGLO-CHINESE SCHOOL (JUNIOR)

Subject: PRIMARY 6 MATHEMATICS

Term: SA1

Paper 1

	_					
1)	4	6)	4	<u>[11]</u>	3	
2)	3	7)	2	12)	1	
3)	3	8)	2	13)	4	
4)	4	9)	2	14)	4	
5)	3	10)	3	15)	3	
1 37	0	1 1 7/2				

16.80

17.560.708

18.4

19.462

20.45

21.5359

22. 13.50

23.568

24.84

25.80

26. 24th

27.
$$14 \times {}^{22}I_7 = 44$$

 $44 + 14 + 14 = 72$
 $21 \times {}^{22}I_7 = 66$
 $66 + 72 = 138$

28.
$$180 - 74 = 106$$

 $106 - 52 = 54$
 $54 + 69 = 123$
 $180 - 123 = 57$

29.2:7

30. 100 - 40 = 60

$$300 \times {}^{60}/_{100} = 180$$

 $180 \div (4 + 5) = 20$
 $20 \times 4 = 80$

Paper 2

- 180 km 150 km = 30 km
 210 km 180 km = 30 km
 300 km 210 km = 90 km
 90 km + 30 km + 30 km = 150 km
 150 km ÷ 3h = 50 km/h
- 2. 6:29
- 3. \$688 \$120 = \$568 \$568 + \$326 = \$894 \$894 ÷ 2 = \$447 \$447 + \$120 = \$567 \$688 - \$567 = \$121
- 4. $8 \times 5 = 40$
- 5. \$99.20 * \$21.20 = \$120.40 10 - 3 = 7 \$120.40 ÷ 7 = \$17.20 \$17.20 x 3 = \$51.60 \$51.60 + \$99.20 = \$150.80
- 6. 25 x 4 = 100 100 - 60 = 40 1 + 4 = 5 40 ÷ 5 = 8 questions
- 7. 180° 90° = 90° 28° + 90° = 118° 180° - 118° = 62° 62° + 65° = 127° 180° - 127° = 53° 53° + 90° = **143**°
- 8. 800 cm ÷ 8 = 100 cm 100 cm x (8 + 10 + 3) = 2100 cm 2100 cm ÷ 3 = **700 cm**
- 9. (a) 28 + 50 + 22 = 100 28 : 100 = 14 : 50 = 7 : 25
 - (b) $28 \div 7 = 4$ $4 \times (10 - 7) = 12$ goldfish

10.
$$1u + 20 = 40\%$$

 $2u + 40 = 80\%$
 $100\% - 80\% = 20\%$
 $50 - 20 = 30$
 $30 \div 20\% = 1.5$
 $1.5 \times 40\% = 60$
 $60 - 20 = 40$ pink balls

13. (a)
$$a + 2 + 4a + a + 2 + 2a + 2 + 2a + 2 = (10a + 8)$$
 cm

(c)
$$569 - 2 = 567$$

 $567 \div 3 = 189$ th pattern

$$17.3u + 3 = 6p$$

 $15u + 15 = 30p$

$$2u + 14 = 5p$$

 $12u + 84 = 30p$

$$12u + 84 = 15u + 15$$

$$15u - 12u = 3u$$

$$84 - 15 = 69$$

$$69 \div 3 = 23$$

$$23 \times 2 = 46$$

$$46 + 14 = 60$$

18. (a)
$$15 \times 30 \times 40 = 18000 \text{ cm}^2$$

 $18000 \text{ cm}^2 \times {}^{80}/_{100} = 14400 \text{ cm}^2$
 $14400 \text{ cm}^2 = 14400 \text{ ml}$
 $18000 \text{ cm}^2 = 18000 \text{ ml}$
 $280 \text{ cm}^2 = 280 \text{ ml}$
 $18000 \text{ ml} - 14400 \text{ ml} = 3600 \text{ ml}$
 $3600 \text{ ml} - 280 \text{ ml} = 3320 \text{ ml}$

(b) $3320 \text{ ml} \div 160 \text{ ml} = 20\% \text{ mugs of water}$



AI TONG SCHOOL

2013 SEMESTRAL ASSESSMENT 1 PRIMARY 6

MATHEMATICS Paper 1 (Booklets A and B)

DURATION: 50 min	D	U	RA	T	10	N	:	50	min	ì
------------------	---	---	----	---	----	---	---	----	-----	---

DATE : 15 May 2013

INSTRUCTIONS

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

Answer all questions.

You are not allowed to use a calculator.

Name:		(*)
Class : Prima	ary 6 () / 6M (Pape
Parent's Sign	ature :	Pape
		Tota

Paper 1

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)

- 1 In 62.78, what does the digit '8' stand for?
 - (1) 8 hundredths
 - (2) 8 tenths
 - (3) 8 ones
 - (4) 8 tens
- Which of the following has the same value as 5030 g?
 - (1) 5 kg 3 g
 - (2) 5 kg 30 g
 - (3) 50 kg 3 g
 - (4) 50 kg 30 g
- 3 Sammie had only the following five coins.

(5 ¢

10 ¢

20¢

50 ¢

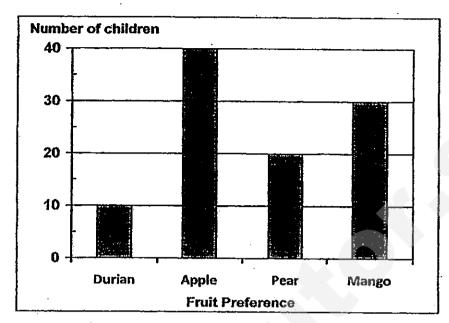
\$1

She gave three coins to her sister. Which of the following is the amount she had given to her sister?

- (1) 55¢
- (2) 75¢
- (3) \$1.05
- (4) \$1.35

Use the information below to answer Questions 4 and 5.

The bar graph below shows the fruit preference of a number of children.



Based on the bar graph, the number of children who prefer Apple is _____ of the number of children who prefer Mango.

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

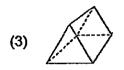
5 Which choice of fruit makes up 20% of the total number of fruits?

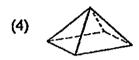
- (1) Pear
- (2) Apple
- (3) Mango
- (4) Durian

Which of the following is <u>not</u> a prism?









- 7 Malcolm and Sean took part in a 15-minute quiz. On average, Malcolm answered 4 more questions than Sean, for every minute. If both of them answered a total of 250 questions, how many questions did Sean answer?
 - (1) 60
 - (2) 95
 - (3) 155
 - (4) 190
- The number of rulers is $\frac{1}{3}$ the number of pencils. If the ratio of the number of erasers to the number of pencils is 3:4, what is the ratio of the number of rulers to the number of erasers?
 - (1) 1:3
 - (2) 3:1
 - (3) 4:9
 - (4) 9:4

- The number of cars sold in May was 150. In June, the number of cars sold decreased to 120. Find the percentage decrease in the number of cars sold between May and June.
 - (1) 20%
 - (2) 25%
 - (3) 30%
 - (4) 80%
- Hock Sim has \$w. Chia Poh has 4 times as much money as Hock Sim. Macey has \$25 more than Chia Poh. How much does Macey have in terms of w?
 - (1) \$(4+w)
 - (2) \$(25 + w)
 - (3) \$(25 + 4w)
 - (4) \$(100 + w)
- A cat is chasing a rat. They are 135 metres apart. For every 9 metres that the cat runs, the rat runs 6 metres. How much further must the cat run in order to catch the rat?
 - (1) 45 m
 - (2) 54 m
 - (3) 270 m
 - (4) 405 m

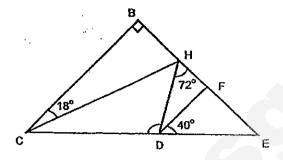
12 The figure below is not drawn to scale BCDF is a trapezium. Find ∠CDH.





(3) 126°

. (4) 162°



Singapore and Kuala Lumpur is 315 km apart. A motorist travelled for 1.5 hours from Singapore towards Kuala Lumpur at a speed of 120 km/h. How far more must he travel to reach Kuala Lumpur?

(1) · 135 km

(2) 180 km

(3) 195 km

(4) 315 km

The ratio of the number of children to the number of adults at a funfair was 2 : 3. $\frac{2}{5}$ of the children were boys. If there were 125 more adults than children, how many girls were there at the funfair?

(1) 100

(2) 125

(3) 150

(4) 375

Shalene is *m* years old. Her mother is 32 years older than her. What was their total age 8 years ago in terms of *m*?

(1) (2m + 16) years

(2) (2m + 24) years

(3) (2m + 32) years

(4) (2m + 48) years

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)

Bakery Bliss made 126 720 cupcakes last year. Express this number to the nearest ten thousand.

Ans:_____

17 Find the value of $\frac{4}{7} \div \frac{2}{3}$.

Ans: _____

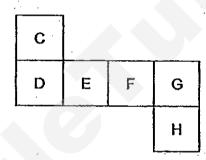
18 What is the missing number in the box?

Ans:

19 Each pack of 5 toy cars is sold for \$9. Joshua has \$47. How many toy cars can Joshua buy at most?

Ans:_____

The figure below shows the net of a cube. If the letter 'D' is at the top of the cube, which letter is at the bottom of the cube?

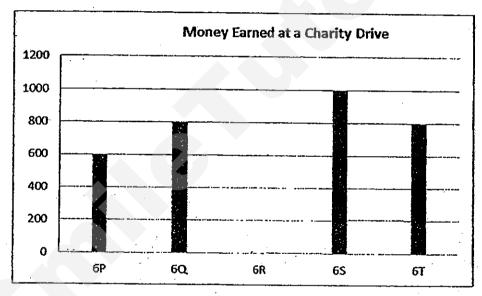


Ans:

21 What is the value of $156 - 18 + 6 \times (3 + 13)$?

Ans:

The bar graph below shows the amount of money earned by 5 classes during a charity drive.



If the total amount of money earned by the 5 classes is \$3600, <u>draw</u> the bar in the graph to represent the amount Class 6R <u>earned</u>.

7 similar blouses cost \$126. What is the cost of 3 such blouses?

Ans: \$_____

24 Express $\frac{2}{5}$ % as a decimal.

Ans:

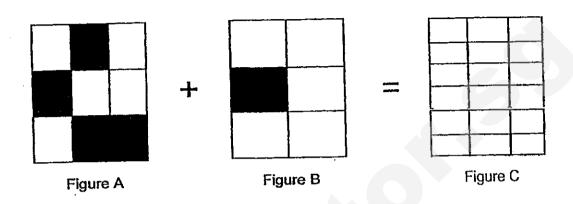
Triangle A has a base of 6 cm and a height of r cm. Triangle B has an area that is (5r + 7) cm² more than the area of Triangle A. Find the area of Triangle B in terms of r.

Ans: cm²

Total:

26	There are a total of 84 marbles in Bag E and Bag F. Bag F and Bag G have a total of 82 marbles while Bag G and Bag H have 85 marbles. How many marbles are there in Bag E and Bag H altogether?
•	
	Ans:
•	Harry has a box measuring 11 cm by 6 cm by 4 cm. He wants to fill the box with cubes of edge 2 cm. What is the maximum number of cubes that can fit into the box?

3 identical rectangles are each divided into equal parts. The shaded parts represent a fraction for each figure. Shade the number of equal parts in Figure C to show the sum of the fractions represented by the shaded parts in Figure A and Figure B.



Jen baked 77 blueberry muffins and chocolate muffins. After giving away 12 blueberry muffins, there were $\frac{2}{3}$ as many blueberry muffins as chocolate muffins left. How many chocolate muffins did Jen bake?

Ar	ıė.				
7.4	13. <u> —</u>	 	 		
-				×	***

30 Mother bought $\frac{1}{5}$ kg of prawns and 3 kg of squids for \$43. 1 kg of prawns and 3 kg of squids cost \$67. Find the cost of 1 kg of prawns.

Ans:	\$ 	 	

Total:

	
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/	10



AI TONG SCHOOL

2013 SEMESTRAL ASSESSMENT 1 PRIMARY 6

MATHEMATICS Paper 2

DURATION	V : 1 h 40 min
DATE	: 15 May 2013
Follow all in Answer all o	the booklet until you are told to do so. structions.
Name :	
Class : P	rimary 6 () / 6M ()
Parent's Sigi Date	nature:Total 60

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

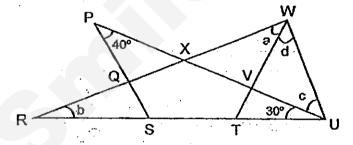
Do not write in this space

(10 marks)

Nicholas scored an average of 165 points for his first 11 online games. How many points must he score on his 12th game to obtain an average of 248 points for all 12 games?

Ans:

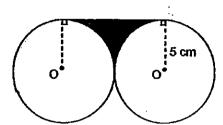
The figure below is not drawn to scale. It is made up of straight lines, forming triangles. $\angle PUR = 30^{\circ}$ and $\angle UPS = 40^{\circ}$. Find the value of $\angle a + \angle b + \angle c + \angle d$.



Ans: _____º

	•
3	The figure is made up of 2 identical circles with 'O' as the centre of the
	circles. The radius of each circle is 5 cm. Find the perimeter of the shaded
	area. (Take π = 3.14)

Do not write in this space



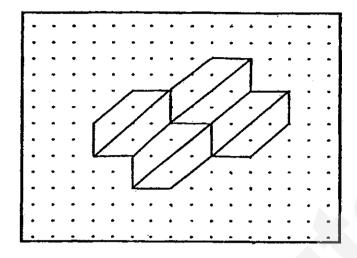
ns: cm

4	$\frac{3}{7}$ of Shermaine's money is $\frac{5}{9}$ of Ryan's money. What is the ratio of
	Ryan's money to Shermaine's money?

Ans:

Form a tessellation by drawing 2 more unit shapes in the space provided in the box.

Do not write in this space.



this space. For questions 6 to 18, show your working clearly in the space provided for each question and write the 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) James used $\frac{3}{8}$ of his money to buy a birthday present. He then lent $\frac{4}{7}$ of 6 the remainder to his friend and found that he had \$45 left. What was his original amount of money? Meixin, Isabel and Devi had some stamps in the ratio of 2:5:7. After Mr 7 Lim gave the girls 8 stamps each, the ratio of the number of stamps Meixin had to the number of stamps Isabel had to the number of stamps Devi had become 10:19:25. Find the total number of stamps they had at first.

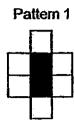
Do not write In

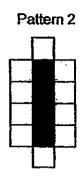
8 Construct a square PQST and an equilateral triangle QSR.
Square PQST shares side QS with the equilateral triangle QSR.
QS = 4 cm.

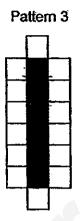
Do not write in this space

9 Black and white squares are used to form the pattern as shown below.

Do not write in this space







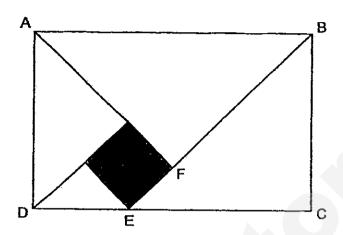
- (a) How many black squares will there be in Pattern 5?
- (b) If there are 86 white squares, which pattern will be formed?

\ns: (a	1)235626	34.473	[1
		and the second of the second o	

(b)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[2
· 1		<u></u>

In the figure below, not drawn to scale, Rectangle ABCD is made up of 4 isosceles right-angled triangles and a square. The ratio of the area of Triangle ABF to the area of Triangle BCE is 9:8. The perimeter of the square is 56 cm. Find the area of Rectangle ABCD.

Do not write in this space



Ans: _____[3]

11 Kenneth's savings was $\frac{7}{10}$ of Eric's savings. After Kenneth increased his savings by 10% and Eric's savings decreased by 25%, Kenneth's savings was \$900 more than Eric's. What was Kenneth's savings in the end?

Do not write in this space

Ans:_____[4

For every box of cookies Colleen sells, he earns \$1.40. A bonus of \$4 is given to him for every 25 boxes of cookies sold. How many boxes of cookies must he sell to earn \$964?

Do not write in this space

Ans:_____[4]

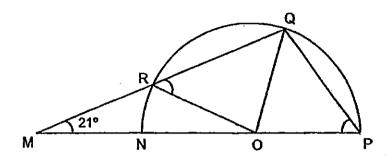
13	Wei Kang bought three times as many notebooks as storybooks and spent a total of \$186. He spent \$42 more on the storybooks than the notebooks. Given that a storybook cost \$9 more than a notebook, find the cost of a notebook.	Do not write in this space

in the figure below not drawn to scale, O is the centre of the semi-circle.

MRQ and MNP are straight lines. MR = OP and ∠RMN = 21°. Find

Do not write in this space

- (a) ∠ORQ
- (b) ∠OPQ



					- 2
Ans: (a)		19.70		x (* -	[1]
	. ` •			, i	
	1	,	* * -		

15 Car A and Car B travelled between Cape Town and Maxi Town. Car A took 8 hours to travel from Cape Town to Maxi Town while Car B took 10 hours to travel from Maxi Town to Cape Town. Both Car A and Car B left for their destination at the same time. After travelling for $4\frac{1}{3}$ hours, Car A stopped at a petrol kiosk. How long would Car B take to pass this petrol kiosk?

Do not write in this space

Ans:___[4]

16	Brendan has some blue and green marbles in the ratio of 2:5. The next day, he bought 18 more blue marbles and gave 6 green marbles to his sister. The ratio of the number of blue marbles to the number of green marbles became 5:4. How many marbles did Brendan have at first?	Do not write in this space
	6	

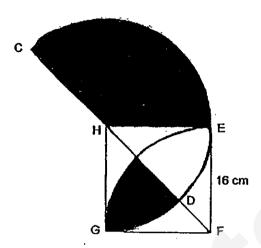
17 Ted had \$300 less than Amy. Amy decided to give $\frac{1}{5}$ of her money to Ted. In return, Ted gave $\frac{1}{3}$ of his money back to Amy. Amy now has \$400 more than Ted. How much money did Ted have at first?

Do not write in this space

in the second				
Ans:_			[5]	
Sec. 1	100	Section 18	 7	

The figure is made up of a semi-circle, a square and two quadrants. H is the centre of the semi-circle. EFGH is a square with sides 16 cm and CF is a straight line. Find the shaded area, rounding off to 1 decimal place. (Use the calculator value of π)

Do not write it this space



	1					
Ans:		٠		15 1	1.	- :
_		 				

END OF PAPER CHECK YOUR WORK CAREFULLY!



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: AITONG

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

01	Ω2	03	04	05	06	07	Q8	09	Q10	Q11	Q12	Q13	Q14	Q15
_ 	٧	_ ~_								-				
1 1	2	2	3	1	4	1 2	l 3	1	3	4	2	1.	- 3	L

16)130000

17)6/7

18)0.1

19)25

20)F

21)108

22)6R draw 400

23)\$54

24)0.004

25)(8r+7)

26)87

27)30

28)11/18

29)39

30)\$30

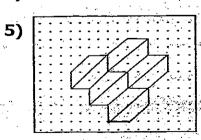
Paper 2

1)165 x 11 = 1815 248 x 12 = 2976 2976 - 1815 = 1161

 $2)180^{\circ} - 30^{\circ} = 150^{\circ}$

3) $\frac{1}{4}$ \times 3.14 \times 10 = 7.85

4)27:35



Page 1 to 4

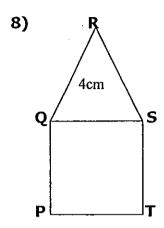
page 1

6)
$$45 \div 3 = 15$$

 $15 \times 7 = 105$
 $105 \div 5 = 21$
 $21 \times 8 = 168

7)
$$8 \div 4 = 2$$

6 + 15 + 21 = 42
42 x 2 = 84



9)a)6 + 2 + 2 = 10
b)86 - 2 = 84
84
$$\div$$
 2 = 42 (B)
42 \div 2 = Pattern 21

$$10/100 \times 70 = 7$$

$$964 \div 39 \approx 24$$

$$24 \times 39 = 936$$

$$964 - 936 = 28$$

$$28 \div 1.4 = 20$$

$$24 \times 25 = 600$$

$$600 + 20 = 620$$
 boxes.

$$13)186 - 42 = 144$$
$$144 \div 2 = 72$$

Total cost of NB
$$\rightarrow$$
72
Total cost of SB \rightarrow 186 – 72 = 114

$$114 - 24 = 90$$

$$90 \div 9 = 10$$

$$24 \div 10 = $2.40$$

14)a)
$$\angle$$
ORG = 21° + 21° = 42°

b)
$$\angle$$
ORG = \angle RQO

$$\angle RQO = 180^{\circ} - 42^{\circ} - 42^{\circ} = 96^{\circ}$$

$$\angle QOP = 180^{\circ} - 96^{\circ} - 21^{\circ} = 63^{\circ}$$

$$\angle$$
OPQ = (180° - 63°) \div 2 = 58.5°

$$8 \times 5 = 40$$

In
$$41/3h \rightarrow 41/3 \times 5 = 212/3$$

$$40 - 212/3 = 181/3$$

Time =
$$181/3 \div 4 = 47/12h$$

```
16)25 - 8 = 17
72 + 30 = 102
102 \div 17 = 6
2 + 5 = 7
6 \times 7 = 42
```

17)Ted \rightarrow 15u Amy \rightarrow 15u + 300 1/5 x 15u = 3u 1/5 x 300 = 60

Ted
$$\rightarrow$$
18u + 60
Amy \rightarrow 12u + 240
1/3 x 18u = 6u
1/3 x 60 = 20

Ted
$$\Rightarrow$$
12u + 40
Amy \Rightarrow 18u + 260
18u + 260 + 2u - 40 \Rightarrow 400
6u + 220 \Rightarrow 400
6u \Rightarrow 180
1u \Rightarrow 30
15u \Rightarrow 30 x 15 = \$450

18)16 x 16 = 256

$$\frac{1}{4} \times \Pi x 16 \times 16 \approx 201.06$$

256 - 201.06 = 54.94
256 - 54.94 - 54.94 = 146.12
146.12÷ 2 = 73.06(A)
54.94÷ 2 = 27.47©
 $\frac{1}{2} \times \Pi x 16 \times 16 \approx 402.12$
402.12 - 27.47 = 374.65
ANS: 374.7cm₂

Name	<u> </u>		(,
Class :	Primary 6	·		

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2013 Semestral Assessment One

Paper 1

Booklet A

13 May 2013

15 QUESTIONS 20 MARKS

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

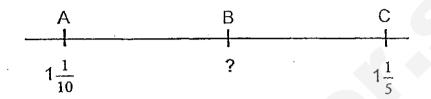
The use of calculators is NOT allowed.

This booklet consists of 7 printed pages including the cover page.

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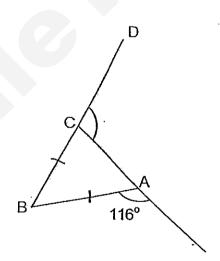
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3, 4) on the Optical Answer Sheet (OAS).

1. In the number line below, AB = BC. What is the value of B?



- (1) 1.05
- (2) 1.10
- (3) 1.15
- (4) 1.30
- 2. Bill bought 2 ℓ of orange juice. Then he spilled 50 cm³ of it. What percentage of the orange juice did he spill?
 - (1) 2.5%
 - (2) 25%
 - (3) 40%
 - (4) 97.5%

- 3. There are 30 teachers in a hall. There are 120 more pupils than teachers. What is the ratio of the number of teachers to the total number of people in the hall?
 - (1) 1:3
 - (2) 1:4
 - (3) 1:5
 - (4) 1:6
- 4. The figure below is not drawn to scale. Given that AB = BC and BD is a straight line, find ∠ACD.



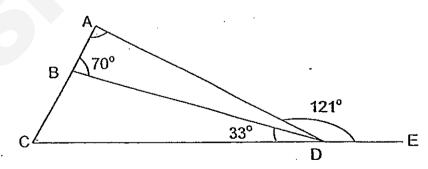
- (1) 52°
- (2) 64°
- (3) 11₆°
- (4) 128°

- 5. Simplify $5n + 4 n + 24 \div 4$.
 - (1) $4n \pm 7$
 - $(2) \cdot 4n + 10$
 - (3) 6n + 7
 - (4) 6n + 10
- The amount of money that Joe has to the amount of money that Ken has is 9:7.

 After Joe has spent \$2.80, he has \$1.70 more than Ken. How much money does

 Ken have?
 - (1) \$2.25
 - (2) \$4.50
 - (3) \$15.75
 - (4) \$20.25

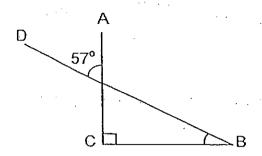
- (3)
- 7. The figure below is not drawn to scale. CDE is a straight line. Find ∠CAD.



- (1) 26°
- (2) 51°
- (3) 59°
- (4) 84°

- Wai Peng spent $\frac{1}{6}$ of his money on transport and $\frac{2}{3}$ of the remainder on food. What fraction of his money did he have left?
 - (1) $\frac{13}{18}$
 - (2) $\frac{5}{18}$
 - (3) $\frac{5}{9}$
 - (4) $\frac{1}{6}$
- 9. A piece of wire was used to construct the outline of a cuboid 15 cm by 11 cm by 30 cm.
 What was the total length of wire used for the cuboid?
 - (1) 56 cm
 - (2) 112 cm
 - (3) 224 cm
 - (4) 448 cm

10. The figure is not drawn to scale. AC and DB are straight lines. Find ∠DBC.



- (1) 33°
- (2) 37°
- (3) 43°
- (4) 47°

11. 10 cones are placed at equal distances apart in a straight line. The first cone is 180 m apart from the last cone. How far is it between the 4th and the 6th cone?

- (1) 60 m
- (2) 40 m
- (3) 36 m
- (4) 20 m

12. The average of five numbers is 13. When one of the numbers is changed to 7, the average of the five numbers becomes 12.2. What is the original number before it is changed to 7?

- (1) 3
- (2) 7.8
- (3) 11
- (4) 19.6

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- 13. Ali has 3r marbles. Ben has 6 more marbles than Ali and 2 fewer marbles than Cain. How many marbles do Ali and Cain have altogether?
 - (1) 6r + 8
 - (2) 6r + 4
 - $(3)^{2}$ 3r + 6
 - (4) 3r + 4
- 14. Remus had \$140 and he wanted to buy some glasses at \$3.50 each. Then he changed his mind and bought cheaper ones at \$2.80 each. How many more glasses could he buy with the \$140?
 - (1) 200
 - (2) 160
 - (3) 20
 - (4) 10
- 15. Mr Sng sold three machines, X, Y and Z, for a total of \$770 000. He sold Machine X at 50% of the price of Machine Y. Then he sold Machine Z at ¹/₃ the price of Machine X. At what price did Mr Sng sell Machine X?
 - (1) \$210 000
 - (2) \$231 000
 - (3) \$330 000
 - (4) \$420 000

Name	·	 ()
			•
Class	· Primary 6		

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2013 Semestral Assessment One

Paper 1

Booklet B

13 May 2013

Booklet A	./ 20
Booklet B	/ 20
Total	/ 40

15 QUESTIONS 20 MARKS

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions.

The use of calculators is **NOT** allowed.

This booklet consists of 8 printed pages including the cover page.

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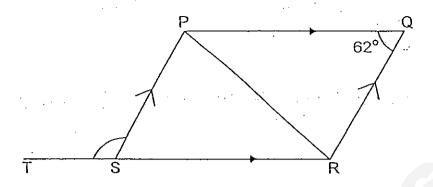
Ques	stions 16 to 25 carry 1 mark each. Write your answers in the spaces provided questions which require units, give your answers in the units stated. [10 marks]
16.	The area of each face of a cube is 81 cm ² . What is the volume of the cube?
	Ans:cm ³
17.	Gopal has 84 ℓ of paint. $\frac{3}{4} \ell$ of paint is needed to paint a bench completely.
	How many benches can he paint completely?
	Ans:

18. To bake a loaf of bread, Mrs Toh mixes 9 cups of flour with every 4 cups of water. If she uses 24 cups of water, how many cups of flour does she need?

Ans: ______ Need a home tutor? Visit smiletutor:sg

19. In the figure, PQRS is a parallelogram and TSR is a straight line. Find ∠PST.

Do not write in this space



Ans : _____

20. In Goodwages Factory, 25 workers were on medical leave in June. In July, 20 workers were on medical leave. What was the percentage decrease in the number of workers who were on medical leave from June to July?

Ans: %

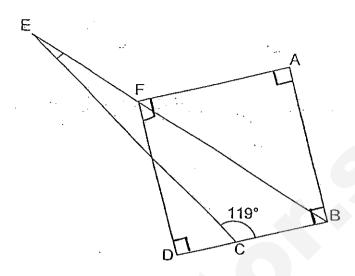
A piece of string is cut into 3 pieces in the ratio 9:5:2. The longest piece is 28 cm longer than the shortest piece. Find the length of the original piece of string.

Ans:

cm

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22. The figure is not drawn to scale. ABDF is a square. EB and EC are straight lines. Find ∠CEB.



Ans	:	

23. The table shows the parking fees for a carpark.

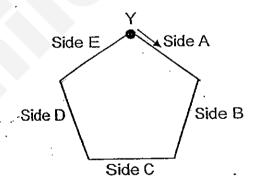
First hour	\$1.30
Every additional 15 minutes or part thereof	\$0.50

Mohan parked his car for $3\frac{5}{12}$ h. How much parking fees did he pay?

Ans		
4112	-1	

25. A snail started crawling along a pentagon of equal sides from the point marked Y in the direction shown. On which side will the snail be when it has crawled

 $\frac{13}{20}$ of the distance around the pentagon?

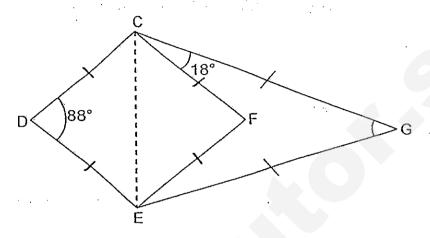


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Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

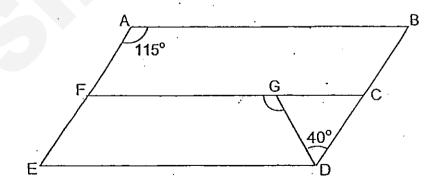
Do not write in this space

26. The figure is not drawn to scale. CDEF is a rhombus and CEG is an isosceles triangle. Find ∠CGE.



۸۵۰		•	c
Ans	-		

27. In the figure, ABDE is a parallelogram. AB//FC and FC//ED. Find ∠FGD.



28.	1 kg of grapes cost as much as 2 kg of apples. Fion spent \$36 on 4 kg of grapes
	and 4 kg of apples. What was the cost of 4 kg of apples?

Do not write in this space

Ans:	\$		

29. Dolores needs 17 cans of peaches to prepare for a party. 1 can of peaches costs \$2. For every 4 cans of peaches, she will receive 1 can of peaches free. What is the minimum amount of money that Dolores has to pay?

Ans: \$
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30.	After some time, 60 more men came and 30 women left. In the end, there were	Do not write in this space
uts.		
a,e		
·		

End of Paper 1

Ans:

Name :		••			 _ ()
		•			 `	•
Class:	Prim	ary	6			

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2013 Semestral Assessment One

Paper 2 13 May 2013

Paper 1	40
Paper 2	60
Total	100

Parent's Signature

18 QUESTIONS 60 MARKS

TOTAL TIME FOR PAPER 2: 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 17 printed pages including the cover page.

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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and 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.

1.	Lucille and Kyrena shared 52 toffees. Kyrena had the larger share. When
•	each of them gave away half of her original share, Kyrena had 12 more
	toffees than Lucille. How many toffees did Kyrena have at first?

Ans: _____[2]

2. The average mass of 3 women and 9 men is 73 kg. The average mass of all the men is 68 kg. What is the average mass of all the women?

ns: _____kg [2]

3. In a farm, $\frac{3}{10}$ of the animals are goats. $\frac{2}{7}$ of the remaining animals are cows. The rest of the animals are pigs. There are 8 060 more pigs than goats. Find the total number of animals in the farm.

Do not write in this space.

Ang:[2]

4. Gonan wanted to buy 8 notebooks of the same type but found that he was short of \$0.90. If he were to buy 5 such notebooks, he would have \$3.60 left. How much money did Gonan have?

Ans: \$ ____[2]

5. Aizza had 145 kg of meat. 25% of it was mutton and the rest was chicken. Later, she bought some more mutton. In the end, 80% of the meat that she had was mutton. How much mutton did Aizza buy?					
Take to the second seco			î,		
	Ans:	kg [2]			

For questions 6 to 18, 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)

Do not write in this space.

6. At a funfair, Maeve received a total amount of \$5334 from selling lollipops at 60¢ each, 45¢ each and \$1.50 each. She sold 340 more lollipops at 60¢ each than at \$1.50 each. Given that she received \$2700 from selling the lollipops at \$1.50 each, how many lollipops did she sell altogether?

√ns:	[4]		
	2010	u	

7. Calix and Brooklyn each had some savings. They wanted to buy a water-bottle of the same cost. Calix was short of \$22 and Brooklyn was short of \$3. When they combined their savings, they still did not have enough money to buy one water-bottle. What is the greatest possible cost of the water-bottle? (Note: the cost of the water-bottle is a whole number)

]_	4]
	[[4

During a sale, the discounted price of a bottle of perfume was $\frac{10}{13}$ of its usual price. Sheridan bought 4 such bottles during the sale and saved a total of \$234. What was the usual price of one such bottle of perfume?

Ans:		[3]	

9. Jotham gave Webster 38% of his car magazines and had 31 car magazines left. As a result, Webster's collection of car magazines increased by 76%. How many car magazines did Webster have before he received from Jotham?

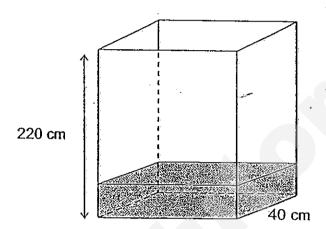
Ans:	[3]	
	,	

- 10. Mrs Jung saved 28% of her salary in January. In February, her salary was reduced by 20% but she still saved the same amount of \$1351.
 - (a) What was her salary in February?
 - (b) What percentage of her salary in February did she save?

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

11. The rectangular tank shown below was 16% filled with water. The water in the tank was poured into another cubical tank of edge 44 cm. The cubical tank was filled up completely.

- (a) What is the capacity of the rectangular tank?
- (b) What is the length of the rectangular tank?



Ans: (a)[2]	
(b)[1]	
	<u> </u>

12. 46% of the books in a library are English books. The rest are Chinese and Malay books. The number of Chinese books is 5 times of the number of Malay books.

- (a) Express the number of English books as a fraction of the number of Malay books.
- (b) Given that there are 1443 more English books than Malay books, how many more Malay books are to be added to the library so that there are as many Chinese books as Malay books?

1]
	1

13. John and Mark collect marbles. The ratio of the number of marbles John collects to the number of marbles Mark collects is 5 : 7. If John gives Mark 141 marbles, the ratio of the number of John's marbles to the number of Mark's marbles will become 1 : 5. Find the total number of marbles the boys have.

Ans:	,	[3	1	

14. Two taps, X and Y, were turned on at the same time to fill a tank 109 cm by 50 cm by 100 cm. The tank had a plug which was attached to the bottom. Water from the two taps flowed into the tank at 2.2½/min and 1.7½/min respectively. After 14 minutes, the plug was opened, with the two taps still turned on. Given that the water flowed out of the plug at 300 m½/min, what is the water level 3 minutes after the plug was removed?

Ans:	[5]	
	•	

15.	A tray of sweets was shared equally among 8 children. 3 children	gave up
	50% of what they could receive. After that, each of the remaining	children
	received 12 more sweets.	

- (a) How many sweets did each of the 3 children give up?
- (b) How many sweets were there in the tray at first?

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

16. A box contained some sketch books and diaries. The number of sketch books was twice of the number of diaries. Each time, 3 sketch books and 5 diaries were removed from the box. After some time, only 56 sketch books were left in the box.

- (a) How many diaries were removed from the box?
- (b) What was the total number of sketch books and diaries in the box originally?

Ans:	(a)		[4	J
------	-----	--	----	---

17. A club had adults and children in the ratio 3: 2. After 10 adults and 80 children joined the club, the ratio of the number of the adults to the number of children became 1: 2.

- (a) How many members were there in the club at first?
- (b) How many children were there in the end?

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

18. Dion, Ellen and Fred shared a sum of money. Dion's share was 50% of Ellen's share and Ellen's share was 75% of Fred's share. Ellen then gave Fred \$950.50 and this was $\frac{1}{5}$ of what Fred had in the end.

Do not write in this space.

- (a) Express Fred's original share as a percentage of the total amount of money shared among the 3 friends. Leave your answer correct to 1 decimal place.
- (b) Find the total sum of money that was shared among the 3 friends.

Ans:	(a)[1]	·
	(b) [4]	

End of Paper 2



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: CHIJ

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

	Q1	Q2	Q3	Q4	Q5	Q6	07	08	Ω9	010	011	012	012	014	045
L	3	1	4	3	2	3	4	2	3	1	2	3	1	Q14 4	Q15

$$16\sqrt{81} = 9$$

9 x 9 x 9 = 729cm₃

$$17)84 \div \frac{3}{4} = 84 \times \frac{4}{3}$$
$$= 28 \times 4 = 112$$

$$18)24 \div 4 = 6$$

 $6 \times 9 = 54$

$$19)180^{\circ} - 62^{\circ} = 118^{\circ}$$

$$20)25 - 20 = 5$$

 $5/20 \times 100\% = 20\%$

21)9u - 2u = 7u
$$\rightarrow$$
28
1u \rightarrow 4
9u + 2u + 5u = 16u
16u \rightarrow 4 x 16 = 64cm

22)90°
$$\div$$
2 = 45°
180° - 119° - 45° = 16°

23)5/12h
$$\rightarrow$$
25min
1st hour \rightarrow \$1.30
2nd hour \rightarrow \$0.50 x (60 \div 15) = \$2
3rd hour \rightarrow \$2
25min \rightarrow \$0.50 x 2 = \$1
\$1+\$2+\$2+\$1.30 = \$6.30

$$24)2004 + 26 = 2030$$

 $2030 - 400 = 1630$
 $1630 \div 2 = 815$

$$25)20 \div 5 = 4$$

$$13 \div 4 = 3\frac{1}{4}$$

$$A \rightarrow B \rightarrow C \rightarrow D$$
side D

Page 1 to 5

page 1

26)180°
$$-88$$
° $= 92$ °
92° \div 2 $= 46$ °
46° $+ 18$ ° $= 64$ °
180° -64 ° -64 ° $= 52$ °

$$27)115^{\circ} - 40^{\circ} = 75^{\circ}$$

 $180^{\circ} - 75^{\circ} = 105^{\circ}$

$$28)1G = 2A \times 4$$

 $4G = 8A$

$$8u + 4u = 12u$$

 $$36 \div 12 = 3
 $$3 \times 4 = 12

$$30)2u+60 = 1p$$

$$3u - 30 = 1p + 20$$

$$3u = 1p + 50$$

$$2u = 1p - 60$$

$$1u \rightarrow 110$$

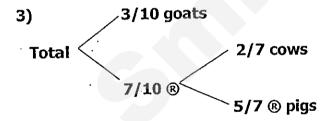
$$3u \rightarrow 110 \times 3 = 330$$

$$330 - 30 = 300$$

1)(52 - 12 - 12)
$$\div 4 = 7$$

(7 x 2)+ 12 + 12 = 38
Kyrena had 38 toffees at first.

2)73
$$\times$$
 (9+3) = 876
68 \times 9 = 612
(876 - 612) \div 3 = 88
The average mass of all the women is 88kg.



$$5/7 \times 7/10 = 5/10$$

 $5/10 - 3/10 = 2/10 \rightarrow 8060$
 $(8060 \div 2) \times 10 = 40300$
The total number of animals is 40300

```
4)8N - $0.90 = 5N + $3.60
    3N→$4.50
    1N→$1.50
    ($1.50 \times 5) + $3.60 = $11.10
    Gonan had $11.10
  5) \frac{1}{4} x \frac{145}{145} = \frac{36.25}{145} (M)
   145 - 36.25 = 108.75 \odot
   (108.75 \times 4) - 36.25 = 398.75
   Aizza bought 398.75kg of Mutton.
 6)2700 \div 1.5 = 1800 (\$1.50)
   1800 + 340 = 2140 (60c)
   2700 + (2140 \times 0.60) = 3984
   $5334 - $3984 = $1350
   $1350 \div $0.45 = 3000 ($0.45)
   1800 + 2140 + 3000 = 6940
   She sold 6940 lollipops altogether.
 7)cost of water bottle
                                   check
                                                                             √/X
                               ($23 - $22) + ($23 - $3) = $21
         $23
                                                                              √
         $24
                               ($24 - $22) + ($24 - $3) = $23
         $25
                               ($25 - $22) + ($25 - $3) = $25
                                                                              X
The greatest possible cost of the water bottle is $24
8)10u \times 4 = 40u
  13u \times 4 = 52u
  52u - 40u = 12u \rightarrow 234
  1u→19.5
  13u→253.5
  The usual price of one such bottle of perfume is $253.50
9)50u - 19u = 31u \rightarrow 31
   1u→1
   19u→19
   76% →19
   100\% \rightarrow 19/76 \times 100 = 25
  Webster had 25 car magazines before he received from Jotham.
10)a)($1351 \div 28)x 80 = $3860
      Her salary in February was $3860
   b)($1351 \div $3860)x 100\% = 35\%
     She saved 35% of her salary in February
```

```
11)a)44 \times 44 \times 44 = 85184
      (85184 \div 16) \times 100 = 532400
      The capacity of the rectangular tank was 532400cm3
    b)532400 \div (220 \times 40) = 60.5
      The length of the rectangular tank was 60.5cm
12)a)23u→Eng
      50u - 23u = 27u \rightarrow \text{Chinese} + \text{Malay}
      27u \div 6 = 4.5u
      Eng/Malay = 23/4.5
      = 46/9
      The fraction is 46/9
   b)46u - 9u = 37u \rightarrow 1443
      1u→39
     46u \rightarrow 39 \times 46 = 1794 \text{ (Eng)}
     9u \rightarrow 39 \times 9 = 351 \text{ (Malay)}
      351 \times 5 = 1755 (Chinese)
      1755 - 351 = 1404
      1404 Malay books are to be added to the library.
13)5u - 2u = 3u \rightarrow 141
    1u→47
    12u→564
    The total number of marbles the boys have is 564
14)109 \times 50 \times 100 = 545000
     (2.2L + 1.7L) \times 14 = 54.6L
     (2.2L + 1.7L) \times 3 = 11.7L
     300ml→0.3L
     11.7L - (0.3L \times 3) = 10.8L
     54.6L + 10.8L = 65.4L
     65.4L > 65400cm<sup>2</sup>
     65400 \div 109 \div 50 = 12
     The water level is 12cm 3min after the plug was removed.
 15)a)8 - 3 = 5
       5 \times 12 = 60
       60 \div 3 = 20
       Each of the 3 children gave up 20 sweets.
    b)20 \times 2 = 40
       40 \times 8 = 320
```

There were 320 sweets in the tray at first.

16)a)5X =
$$3X + 56/2 \times 2$$

10X = $3X + 56$
 $7X \rightarrow 56$
 $X = 8$
 $8 \times 5 = 40$

40 diaries were removed from the box.

b)
$$8 \times 3 = 24$$

 $24 + 56 = 80$
 $80 + (80 \div 2) = 120$

The total number of sketch books and diaries in the box original is 120.

$$6u + 20 = 2u + 80$$

 $4u \rightarrow 60$
 $1u \rightarrow 15$
 $3u + 2u = 5u$
 $15 \times 5 = 75$

There were 75 members at first.

b)
$$(15 \times 2) + 80 = 110$$

There are 110 children in the end.

a)(3802
$$\div$$
8079.25)x 100% \approx 47.1%

Fred's original share was 47.1% of the total amount of money shared among the 3 friends.

page 5

METHODIST GIRLS' SCHOOL

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MID-YEAR EXAMINATION 2013 PRIMARY.6 MATHEMATICS

PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 50 minutes

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.

The use of calculators is NOT allowed.

Name:	· · · · · · · · · · · · · · · · · · ·					()	
Class:	Primary 6		•	*				
Date:	14 May 2013	V 2	e san di san San di san d			green e e	ų.	

This booklet consists of 6 printed pages including this page.

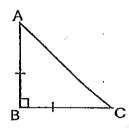
he Arthritish to the

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.

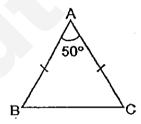
(20 marks)

- 1 Jane had \$5x. Her mother gave her \$3x. She bought a storybook for \$10. How much money had she left?
 - (1) \$8x
 - (2) \$(2x-10)
 - (3) \$(10-8x)
 - (4) \$(8x-10)
- Which of the following is an equilateral triangle?

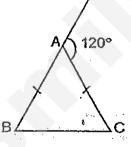
(1)



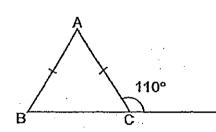
(2)



(3)



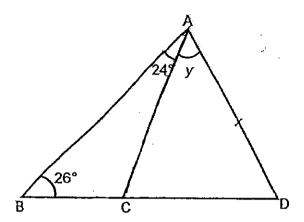
(4



- The usual price of a bicycle is \$200. Mr Lee bought it at \$160. What was the percentage discount?
 - (1) 20%
 - (2) 25%
 - (3) 40%
 - (4) 80%

(Go on to the next page)

In the figure, ACD is an isosceles triangle and BCD is a straight line. Find $\angle y$.



- (1) 50°
- (2) 80°
- (3) 100°
- (4) 130°

5 Which one of the following is equal to 20 sixths?

- (1) $\frac{3}{10}$
- (2) $3\frac{1}{3}$
- (3) $6\frac{1}{20}$
- (4) $20\frac{1}{6}$

6 If X: Z=5:2 and Y: Z=3:4, what is the ratio of X: Y?

- (1) 5:3
- (2) 10 3
- (3) 15:6
- (4) 15:8

(Go on to the next page)

7		are 75 passengers in a bus. 36% of them are children and the rest are . If 75% of the adults are men, how many women are there in the bus?
	(1)	12
	(2)	24
	(3)	36
	(4)	48
8	Find t	he area of a semicircle of diameter 12 cm in terms of π .
	(1)	$18 \pi \text{ cm}^2$
	(2)	$36 \pi \text{ cm}^2$
	(3)	72 π cm ²
	(4)	144 π cm ²
9	Six th	nousands, 5 hundreds and 14 tenths is
	.(1)	6514
	(2)	6640
	(3)	6501.4
	(4)	6500.14
٠.		
10		nber when rounded off to the nearest thousand is 400 000.
	What	is that number?
		The control of the state of the state of the control of the contro

390 994 399 573

400 900 409 985

11	Samantha spends $\frac{3}{5}$ of her monthly allowa	nce on food. She spends 0.2 of the
	remainder on transport and saves the rest. allowance does she spend in all?	What fraction of her monthly

- (1) $\frac{2}{5}$
- (2) $\frac{4}{5}$
- (3) $\frac{8}{25}$
- (4) $\frac{17}{25}$

Amanda baked 189 cookies. She divided them in the ratio 2:3:4
She kept the largest share and gave the rest to her cousins.
How many cookies did her cousins receive in all?

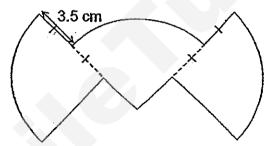
- (1) 42
- (2) 63
- (3) 84
- (4) 105

Mr Tan gave 20% of his monthly salary to his wife. He spent 45% of his salary and saved the rest. If his wife received \$600 less than what he saved, what was his monthly salary?

- (1) \$2400
- (2) \$4000
- (3) \$3000
- (4) \$6000

- The distance between Town A and Town B is 580 km. Mr Raja travelled from Town A to Town B at an average speed of 72 km/h for 2 1/2 h.
 How many kilometres more must Mr Raja travel to reach Town B?
 - (1) 180 km
 - (2) 400 km
 - (3) 436 km
 - (4) 508 km
- 15 The following figure is made up of 3 identical quadrants.

Find the perimeter of the following figure. (1. ke $\pi = \frac{22}{7}$)



- (1) 33 cm
- (2) 44.5 cm
- (3) 54 cm
- (4) 61 cm

(Go on to Booklet B)

METHODIST GIRLS' SCHOOL

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MID-YEAR EXAMINATION 2013 PRIMARY 6 MATHEMATICS

PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Date:

Write your answers in this booklet.

14 May 2013

The use of calculators is **NOT** allowed.

Name:	· · · · · · · · · · · · · · · · · · ·	()
Class:	Primary 6		•

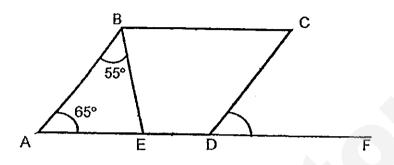
Paper 1 Booklet	A / 20	
Paper 1 Booklet I	J 20	
Paper 2	/ 60	
TOTAL	/100	

This bookiet consists of 8 printed pages including this page.

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.

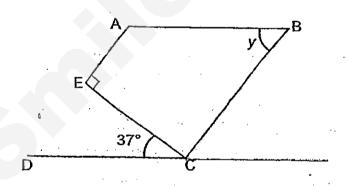
(10 marks)

In the figure below, ABCD is a parallelogram. AF is a straight line. \angle BAE = 65° and \angle ABE = 55°. Find \angle CDF.



Ans:

17 In the figure below, AB is parallel to DC and AE is parallel to BC. Find $\angle y$.



Ans:

(Go on to the next page)

18	Find the value of $0.9 - 0.08$ as a fraction in the simplest form.
	•
	Ans:
19	Angela had 2.5 m of ribbon. She gave her sister 1.4 m of it. What is the ratio of the length of the ribbon Angela had left to that of her sister's?
. •	Ans:
20.	The ratio of the number of stamps Henry has to the number of stamps Sally has
I	is 3:1. Henry has 48 stamps more than Sally. How many stamps does Henry have?
	and the state of t
eg and	and the property of the state of
	and the second s
AND THE PARTY OF T	
in de la companya de La companya de la co	Ans:
,	en e
	(Go on to the next page)

21	The ratio of the number of boys to the number of girls in a club was 2 : 3 at first. After 4 boys left the club, the ratio of the number of boys to the number of girls
	became 1:2. How many girls were there?
	Ans:
22	10% of a is equal to 15% of 200. What is a ?
	Ans:
23	Adrian cycled at a speed of 30 km/h for 1 h 30 min and completed the rest of the
	journey at 20 km/h in 30 min. Find the average speed of the whole journey.
	to the second of
· .	and the second of the second o
	and the second of the second o
	and the second of the second o
	Ans:km/h
	(Co on to the next name)
	(Go on to the next page)

A table with 5 columns is filled with numbers in the following way.

Column	Column	Column	Column	Column
A	B	C	D	E
2 20 22	4 18	6 16	8 14	10 12

In which column will the number 78%e?

A	
Ans:	
Auto.	

What is the largest 5-digit odd number that can be formed using all the digits 6, 0, 5, 7 and 2?

Ance				
₩19°	÷			

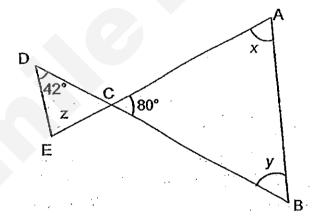
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

The pencils in a stationery store are sold at 4 for *p* cents. How many pencils can Ali buy with \$2?

Ans:	

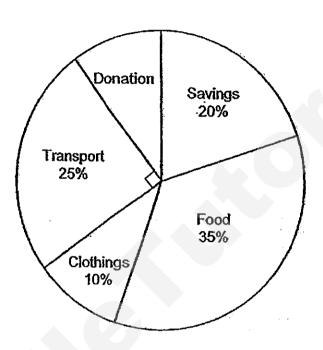
27 In the figure below, ACE and BCD are straight lines. \angle CDE=42° and \angle ACB=80°. Find the sum of \angle x, \angle y and \angle z.



Ans		- '	•
/ IIIO.			

(Go on to the next page)

The pie chart below shows how Andrea spends her monthly salary. If Andrea saves \$500 every month, how much does she donate every month?



Ans: \$

29 The table below shows the printing speed of a printer.

Type of print	Number of pages per minute
Black and White	15
Colour	10

Raju printed 40 pages in black and white and 15 pages in colour. How long did the printer take to print the pages?

- 4	r	10		
,	и	ı	٠,	

Jason bought 4 T-shirts and 2 pairs of jeans for \$180. A pair of jeans cost3 times as much as a T-shirt. Find the cost of a pair of jeans.

Ans: \$_____

End of Paper

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



MID-YEAR EXAMINATION 2013 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1h 40 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

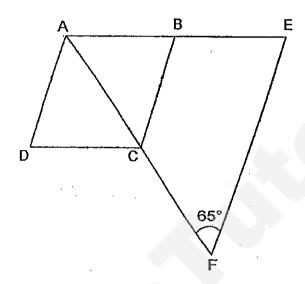
The use of an approved calculator is expected, where appropriate.

Name:			(,).	
Class:	Primary 6	· · · · · · · · · · · · · · · · · · ·	5	•
Date:	14 May 2013			
er er a	and the second of the second o	• •	$x = x e^{x} + y \cdot x$	

This booklet consists of 15 printed pages including this page.

Questions 1 to 5 carry 2 marks each. Show your workings clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

In the figure below, ABCD is a rhombus.
 BC is parallel to EF and ∠AFE = 65°. Find ∠ADC.



Ans:	•
Allo.	2.4

Joan has \$150. Jasmine has 40% more than her. Express the amount of money Joan has as a percentage of the amount of money Jasmine has. Give your answer as a mixed number in the simplest from

Ans:	%
ruio.	70

(Go on to the next page)

3	An hour later, 90 boy	dren in the school hall. I ys left the hall. What pe ys? (Round off your an	rcentage of the nur	nber of childre	en
			Ans:	9	6
;	along a straight road.	ed driving from the sam After 2 hours, they we what was Zhixiang's ave	re 222 km apart. If		
			٥		
				•	
		The wife of the second			

Need a home tutor? Visit smiletutor.sg

The figure below shows part of a circle. Find its perimeter. (Take $\pi = \frac{22}{7}$)



For Questions 6 to 18, show your working clearly in and write your answer in the spaces provided. The r	number of marks ava	
shown in the brackets [] at the end of each question	on or part-question.	(50 marks)

Sarah had some coins in her coin box. One tenth were 10-cent coins, $\frac{3}{5}$ of them were 20-cent coins and the rest were 50-cent coins. There were 6 more 20-cent coins than 50-cent coins. How much money was in the coin box?

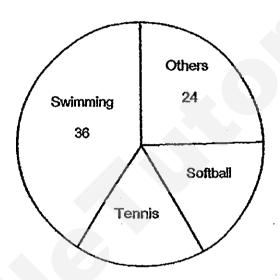
Ans:		[3]
/UIO	_	U

Box A and Box B contained only purple and yellow beads.
In Box A, the ratio of the number of purple beads to the number of yellow beads was 4:3.
In Box B, the ratio of the number of purple beads to the number of yellow beads was 3:1. There were 10 more purple beads in Box B than the number of purple beads in Box A.
If the 2 boxes contained the same total number of beads, how many beads were there in the 2 boxes?

100	4 ST 34	1.0	-			
Ans:		,			•	[3]
				 		. L

- The pie chart represents the Co-curricular activity chosen by 90 pupils.

 Each pupil chose only one activity. An equal number of pupils chose Softball and Tennis.
 - (a) How many pupils are there in Tennis?
 - (b) What percentage of the pupils chose Swimming?



Ans.	(a)	4,14			7 just	_ [2	2
	11	<u>-</u>					
* . =*	(b)		9	, .	<u> </u>	_[1	J

9 A wheel has a radius of 32 cm. The distance from Point X to Point Y is 940 cm. How many turns will the wheel make to cover the distance from Point X to Point Y? Round off your answer to the nearest whole number.

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



Ans:	[3
,	 ıv

A pack of bookmarks was shared among a group of boys. Another pack containing an equal number of bookmarks was shared among a group of girls. Each boy received 5 bookmarks and each girl received 3 bookmarks. There were 18 more girls than boys. How many bookmarks were there altogether?

Ans: _____[3

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

Parking Charges	
For the first hour	\$ <i>b</i>
For every additional $\frac{1}{2}$ h	\$\frac{b}{5}

Mrs Lee parked her car for $3\frac{1}{2}$ hours at the car park.

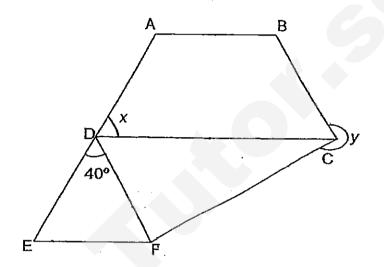
- (a) How much did Mrs Lee pay for parking her car at the car park? Give your answer in term of b.
- (b) If Mrs Lee paid a parking charge of \$8, what is the rate for the first hour?

	ns.			,2. ·		. 4.			[2
			' –		**				
•		(b)			,	·		[2

- In the figure below, ABCD is a trapezium and DEF is an isosceles triangle.

 ADE is a straight line. BC is parallel to DF and DC is parallel to EF.

 ∠EDF=40° and ∠DFC=90°
 - (a) Find ∠x
 - (b) Find $\angle y$



An	s: (a) _		[2]
٧			
	<i>(</i> 6.)		ro.

- 25% of the total number of children in a karate club were girls. After 15 boys left and 15 girls joined the club, the number of boys then became $\frac{9}{16}$ of the total number of children.
 - (a) How many children were there in the club at first?
 - (b) How many boys were there in the end?

Ans:	(a)		[2
	(b)	3245	_ - :2

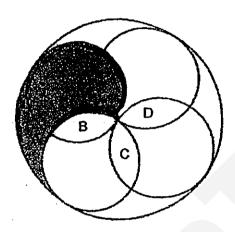
- Tim and Jeffrey both drove from Town A to Town B. Tim started his journey at 9.a.m and travelled at an average speed of 75 km/h. Jeffrey started his journey some time later. At 11 a.m., Jeffrey overtook Tim. When Jeffrey reached Town B at 1 p.m., Tim was 50 km from Town B.
 - (a) Find Jeffrey's average speed.
 - (b) At what time did Jeffrey start his journey?

Ans: (a) _	-1.					[2
		•	<i>2</i> .			-
(b)		eg.		,	, . ,	[2

15 Four identical circles of diameter 10 cm are arranged in a big circle. The four parts A, B, C and D are arranged in such a way that they are equal.

(Take $\pi = 3.14$)

- (a) Find the area of the shaded part.
- (b) Find the perimeter of the shaded part.



A	ກຣ:	(a)				 	[2]
			1.2	4.6	100	a'	-
		(h)					[2]

16	Mrs Wong gave 20% of her money to a charity. She gave the rest of her
	money to her three children, Mark, Nicholas and Owen in the ratio 7:2:3.
	If Mark gave \$1 600 to Nicholas, Nicholas would have half as much as Mark.

- (a) How much money did Mrs Wong have at first?
- (b) How much money did Owen receive from his mother?

Ans: (a)		٠,	s .		[3
A Section of the second	و الود الا	£			
(b)				 	_[2

- At first, 25% of the number of stickers that Ailing had was $\frac{1}{3}$ of the number of stickers that Lily had.

 In the first round, Ailing lost 65 of her stickers to Lily.

 In the second round, Lily lost 30 of her stickers to Ailing.

 After the game, they had the same number of stickers.
 - (a) How many stickers did Ailing have at first?
 - (b) How many stickers did Lily have in the end?

(a)		 <u></u>	ri e i d		1	_[3
` `	٠.,			 1		
<i>a</i> 5	4.5					re

18	Alex and Jen had an equal amount of flour. Jen packed her flour equally into
	6 big bags. Alex packed his flour into smaller bags and found he had twice as
	many bags as Jen. The mass of 3 small bags and 1 big bag of flour was 20 kg.

- (a) What was the mass of the flour they had?
- (b) Find the total mass of a big bag and a small bag of flour.

Ans: (a)_	[3]
·	

(b)		[2]
-----	--	-----

End of Paper



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: MGS

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

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

16)65°

17)53°

18)41/50

19)11:14

20)72 stamps

21)24 girls

22)300

23)27.5 km/h

24)Column B

25)76205

26)800/p

27)158°

28)\$250

29)41/6 min

30)\$54

Paper 2

1)
$$\angle$$
EFA = \angle BCA = 65°

$$\angle$$
BCA = \angle CAD = \angle ACD = 65°

$$65^{\circ} \times 2 = 130^{\circ}$$

$$180^{\circ} - 130^{\circ} = 50^{\circ}$$

 $2)140/100 \times 150 = 210$

 $150/210 \times 100\% = 713/7\%$

3)250 - 90 = 160

480 - 90 = 390

160/390 x 100%≈41.0%

The percentage is 41.0%

Page 1 to 5

page

```
10)5b = 3 \times (b + 18)
    5b = 3b + 54
    2b = 54
    b = 27
   27 \times 5 = 135
   27 + 18 = 45
   45 \times 3 = 135
   135 \times 2 = 270
There were 270 bookmarks
11)a)3\frac{1}{2} - 1 = 2\frac{1}{2}
      2\frac{1}{2}h = five \frac{1}{2}h  hours
      5/6 \times 5 = b
      b+b=2b
  She has to pay $2b for parking her car at the car park
    b)2b→$8
      b→$8/2
      =⋅$4
  The rate for the first hour is $4
12)a)180 - 40 = 140
      140 \div 2 = 70 \, (\angle DEF/\angle DFE)
      \angle DFE = \angle FDC = 70^{\circ}
      ∠X is 70°
   b)180 -70 - 90 = 20 (\angle DCF)
     \angle X = \angle BCD = 70^{\circ}
      360 - 70 - 20 = 270^{\circ}
      ∠y is 270°
13)a)16-9=7
     12 - 9 = 3
     3u→15 children
     16u→16x15/3 children
     = 80 children
   There were 80 children at first
   b)9u\rightarrow 9x15/3 children
   = 45 children
   There were 45 boys in the end
14)a)75 x 2 = 150
   75 \times 4 = 300
     300 - 150 = 150
   150 + 50 = 200
   200 ÷ 2 = 100
   Deffrey's average speed is 100km/h.
```

15)a)big circle radius
$$\rightarrow$$
 10cm
3.14 x10 x 10 = 314
314 \div 4 = 78.5

The area of the shaded part is 78.5cm2 b)3.14 \times 10 = 3.14 (perimeter of line) 3.14 \div 2 = 15.7 15.7 + 31.4 = 47.1

The perimeter is 47.1cm

16)a)7 +2 = 9

$$9 \div 3 = 3$$

 $3 - 2 = 1$
 $1u \rightarrow 1600
 $1600 \times 12 = 19200$
 $80\% \rightarrow 19200
 $100\% \rightarrow $100 \times 19200/80 = 24000
She had \$24000 at first
b)3 x 1600 = 4800

He received \$4800 from his mother.

20 - 12 = 8 (1bb) 8 x 6 = 48

48 + 48 = 96 They had 96kg of flour

$$b)8 + 4 = 12$$

The total mass of 1 big bag and 1 small bag of flour is 12kg.

page 4



NAN HUA PRIMARY SCHOOL SEMESTRAL EXAMINATION 1 - 2013 PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions (20 marks)

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided
- 6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1	Booklet A	
	Booklet B	/ 40
Paper 2		/ 60
Total		/ 100

	()
14 May 2013	Parent's Signature :
	14 May 2013

Section A (20marks)

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. How many eighths are there in $2\frac{5}{8}$?
 - (1) 16
 - (2) 18
 - (3) 21
 - (4) 25
- 2. Express $\frac{3}{7}$ as a decimal. Give your answer correct to 2 decimal places.
 - (1) 0.42
 - (2) 0.43
 - (3) 2.33
 - (4) 2.34

3. The cost of a Toyoto car, correct to the nearest thousand, is \$140 000.
Which one of the following could be the actual cost of the car?

- (1) \$138 599
- (2) \$139 499
- (3) \$140 499
- (4) \$140 599

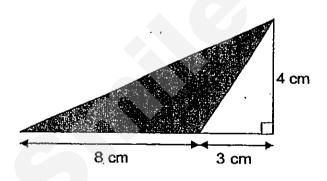
4. Simplify 5a + 9 - 3a - 4.

- (1) 2a-5
- (2) 2a + 5
- (3) 8a + 13
- (4) 8a 13

5. Express 80 m ℓ as a ratio of 4 ℓ in its simplest form.

- (1) 1:2
- (2) 1:5
- (3) 1:20
- (4) 1:50

6. Find the shaded area of the figure.

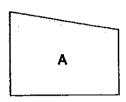


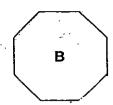
- (1) 12 cm²
- (2) 16 cm²
- (3) 20 cm²
- (4) 32 cm²

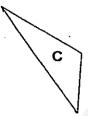
)

- 7. Siti bought some oranges. She found out that $\frac{11}{25}$ of them were rotten. What percentage of her oranges was <u>not</u> rotten?
 - (1) 11%
 - (2) 14%
 - (3) 44%
 - (4) 56%
- 8. At a meeting, the number of male was $\frac{5}{7}$ of the number of female. Express the number of female as a ratio of the total number of people.
 - (1) 5:7
 - (2) 7:5
 - (3) 5:12
 - (4) 7:12
- 9. Which of the following fractions is the largest?
 - (1) $\frac{13}{16}$
 - (2) $\frac{7}{12}$
 - (3) $\frac{7}{8}$
 - (4) $\frac{3}{4}$

10. Mdm Fatimah wants to lay her bedroom floor with tiles of only one shape. The tiles must fit together without any gaps or overlaps between them. Which of the following shapes can she choose from?



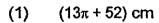




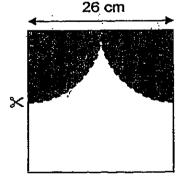
- (1) A only
- (2) A and C only
- (3) B and C only
- (4') A, B and C
- 11. The ratio of Bobby's money to Albert's money was 4:5. Albert's mother gave him some money, and as a result, the ratio of Bobby's money to Albert's money became 2:3. What was the percentage increase in Albert's money?
 - (1) 50%
 - (2) 30%
 - (3) 25%
 - (4) 20%

)

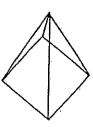
12. Two quadrants of the same radius are cut out from a square as shown below. Find the perimeter of the figure that is left. (Leave your answer in terms of π)



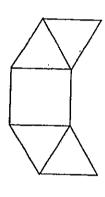
- (2) $(13\pi + 104)$ cm
- (3) $(26\pi + 52)$ cm
- (4) $(26\pi + 104)$ cm

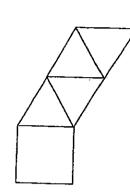


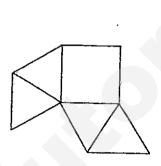
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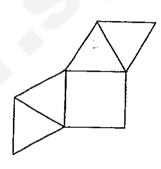


Which one of the following nets can be folded to form the pyramid shown above?









А

В

C

Ď

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

()

- 14. John can buy either 36 identical pens or 24 identical files with the money he has. After buying 8 such files and 18 such pens, how many more such pens can John buy with the remaining money he has?
 - (1) 24
 - (2) 18
 - (3) 6
 - (4) 4

)

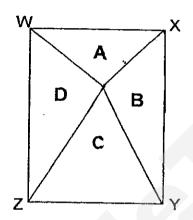
15. WXYZ is a rectangle formed using 4 triangles A, B, C and D.

The area of Triangle A is 72 cm².

The ratio of area of Triangle C to area of Triangle B is 13:10.

The area of Triangle D is $\frac{6}{5}$ the area of Triangle B.

Find the area of rectangle WXYZ.



- (1) 352 cm²
- (2) 324 cm²
- (3) 288 cm²
- (4) 282 cm²

Section B (20 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. Find the value of $\frac{5}{6} + \frac{1}{4}$

Express your answer as a mixed number in the simplest form.

Ans	:	
	•	

17. Express 1.25 as a percentage.

Ans : ______ %

18. If y = 4, find the value of $\frac{5y-6}{2}$

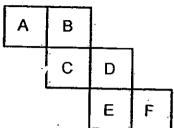
Ans:

19. John has \$8. He has k times as much money as his sister. How much does his sister have?

Ans:\$____

20. The figure below shows the net of a cube.

If the figure is folded to make a cube, which letter will be directly opposite letter A?



Ans :____

21. The figure below shows a number line.

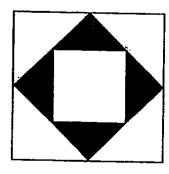
What is the value indicated by the arrow?



Ans:_____

22. The figure below is made up of 3 squares of different sizes.

What fraction of the figure is shaded?



Ans : ____

Subtotal

13

23. How many of the following letters has/have only 1 line of symmetry?

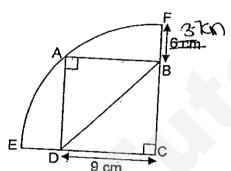
- U

C

K

Ans	. •	
	•	

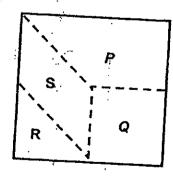
24. ABCD is a square within a quadrant CEF. Find the length of the line BD.



n
7

25. The figure below is a square made up of four parts, P, Q, R and S.

Q is a square and is $\frac{1}{4}$ of the figure. S is a parallelogram.



What percentage of the figure is S?

Subtotal

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13

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. [10 marks]

ques	mons which require arms, give your answers in the arms states.	[10 1110	
26.	The area of a square is 121 cm ² . What is the perimeter of the square?		Do not write in this space
		(
	Ans :	,cm	
27.	The figure below is made up of identical cubes. Without re-arrang	ing the	
•	existing cubes, what is the least number of similar cubes to be acchange the figure into a cuboid?	lded to	
		·	
	Ans :		
	Su 10	btotal	14

28.	Kathy travelled 40 km in 20 min and another 30 km in 20 min. Find her average speed for the whole journey, giving your answer in	Do not write
	km/h.	in this space
٠		
	A	
	Ans :km/h	
29.	Auntie Nora has $\frac{9}{10}$ kg of chilli powder. She repacks them into	
	packets of 15 g each. How many such packets does she get?	
	Ans :	
30.	A snail is at the bottom of a 15 m well. For every 3 m it climbs in 3 min,	
	it will rest for the next 2 min. At this rate, how long does it take for the	
	snail to reach the top of the well?	
	•	
	·	
	Ans :min	
·	END OF PAPER — Subtotal	/6



NAN HUA PRIMARY SCHOOL SEMESTRAL EXAMINATION 1 - 2013 PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions

(10 marks)

13 Structured / Long Answer Questions (50 marks)

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully
- 4. Answer all questions and show your workings clearly.
- 5. You are allowed to use a calculator.

Marks Obtained

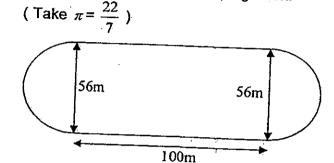
Total	/ 60	
Name :	·	1
Class: 6		•
Date: 14 May 2013	Parent's Signature :	

Section A (10 marks)

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

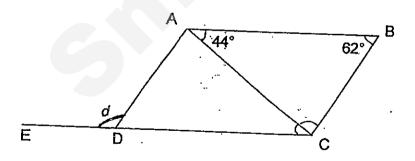
1. The figure below shows a running track with its semi-circular ends. Find the perimeter of the running track.

Do not write in this space



Ans: _____

In the figure below, ABCD is a parallelogram (not drawn to scale).
 EDC is a straight line. Find ∠ d.



Ans .___

3.	Mr Ong has 40 cars and bicycles altoget	her. There are a total of 110	
	wheels. Find the number of cars Mr Ong	has	7
		, nao.	:
		•	
	• •		
		Ans :	
	Mrs Tan spent \$450 of her monthly salary When she increased her monthly spendin decreased by 10%. Find her monthly salary	na by 30% her covings	
			Ì
	An	is:\$	
		-	
	The table below shows the parking charge	es at a shopping mall.	
	Duration	Rates	
	First 1 hour or less	\$2.14	
	Subsequent 30 min or part thereof	\$1.07	
	Mr Hamilton parked his car at the mall from much parking charges would he have to pa	n 2.40 p.m. to 5.05 p.m. Hov ay?	v
	•		
	·		
	Ans: \$		
	- 1101 4		

Section B (50 marks)

For questions 6 to 18, 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. Remember to include the units wherever possible.

6. The average height of 4 girls was 120 cm. When Jane joined them, the average height increased by 9 cm. What was Jane's height?

Ans:_____[3m]

7. Mrs Lim buys a water melon. She keeps $\frac{1}{4}$ of it for her husband. Her children share the remaining water melon. Each child eats $\frac{1}{8}$ of the water melon. How many children does she have?

Ans : _____[3m]

		J\$ 40°
8.	Jun Kai had just enough pocket money to buy some \$1.50 burgers or \$1.20 burgers. He realised that if he had spent all his money on \$1.50 burgers, he would have 8 burgers fewer than if he had spent \$1.20 per burger. How much was his pocket money?	
•		
		•
	Ans :[3m]	
9.	Mr Wong is 9k years old now. He has 2 sons, Bryan and Nigel.	
	He is 3 times as old as Nigel now. Bryan is 2k years younger	
	than Nigel. (a) How old is Bryan now?	
	(b) How old will Mr Wong be when Bryan is 18 years old?	
	Leave your answers for both (a) and (b) in terms of k.	
	Ans : (a)[1m]	
	(b)[2m]	

10.	A baker made some cupcakes for sale. He sold 450 cupcakes in the morning and $\frac{3}{5}$ of the remainder in the afternoon. He was left with 10% of the original number of cupcakes. How many cupcakes did he make?	6
	Ans :[3m]	
11.	Bob, Clement, Dominic went to buy a gift for Mrs Lee. They shared the cost equally among themselves. However, Dominic forgot to bring his money. So, his friends paid for the gift first. The ratio of the amount Bob paid to the amount Clement paid was 4:5. The next day, Dominic returned \$18.90 to Clement and some money to Bob. What is the cost of the gift?	
	Ans[3m]	

- 12. A van took 3 hours to travel from Town A to Town B at an average speed of 65 km/h. A lorry travelled along the same route at an average speed of 75 km/h. The lorry arrived at Town B at 1630.

 (a) What was the distance from Town A to Town B?

 - At what time did the lorry leave Town A? (b)

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

- The original selling price of a computer was \$2800. A shop sold it at a discount of 20% during a sale. If the shop charged a 7% GST on the discounted price,
 - (a) how much was the GST?
 - (b) how much was the computer sold including GST?

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

14. The ratio of the number of male to the number of female in the hall was 5 : 3. The number of male to the number of female in the auditorium was 7 : 1.

There were twice as many people in the hall as in the auditorium.

- (a) What was the ratio of the number of female in the hall to the number of male in the auditorium?
- (b) When 18 male left the auditorium and 16 female went into the auditorium, the ratio of the number of male to the number of female in the auditorium became 2:1.

How many male were there in the auditorium in the end?

Ans : (a)	[1m]	 _
(b)	[3m]	

The pattern below is made up of circles and triangles.
 Study the pattern carefully and answer the questions below.

Pattern 1	Pattern 2	Pattern 3	Pattern 4

- (a) How many circles are needed to form Pattern 6?
- (b) Which Pattern number has exactly 144 triangles?
- (c) The number of circles used in Pattern N is exactly the same as the number of triangles used to form Pattern 20. What is N?

Ans:	(a)_		_[/1m]
	(b)_	<u> </u>	_[2m]
	(c)		_[2m]

(c)[2m]	

- 16. Jonathan and Benjamin started brisk walking from Point A but in opposite direction. After walking for $\frac{3}{4}$ h, they were 7.2 km apart. Jonathan's speed was 1.4 km/h slower than Benjamin.
 - (a) Find Jonathan's speed.
 - (b) If Benjamin continued to brisk walk for another $\frac{1}{2}$ h, find the total distance covered by him. Give your answer correct to 1 decimal place.

Ans : (a <u>)</u>	[3m]
(b)	<u>[</u> 2m]

Two different tanks, A and B, were filled with water. 17. If Tank A leaked 10 mt of water each hour and Tank B leaked 5 mt of water each hour, Tank A would still have 300 m² of water left when Tank B became empty. If Tank A leaked 5 mℓ of water each hour and Tank B leaked 10 mℓof water each hour, Tank A would still have 750 in l of water left when Tank B was empty. How much water was there in tank A at first?

Ans:

[5m]

18. A factory manufactured 2620 'Small', 'Medium' and 'Large' size T-shirts. The ratio of the number of 'Medium' size T-shirts to the number of 'Small' size T-shirts was 1:3. After $\frac{3}{5}$ of the 'Small' size T-shirts, $\frac{1}{4}$ of the 'Large' size T-shirts and none of the 'Medium' size T-shirts were sold, there were 1645 T-shirts left. How many 'Small' size T-shirts were there at first?

Ans:[5m]	
FND OF PAPER	-



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: NAN HUA

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	011	012	013	014	015
3	2	3	2	4	2	4	4	3	2	4	1	4	3	1

16)11/12

17)125%

18)7

19)\$(8/15)

20)D

21)9.6

22) 1/4

23)2

24)12.7cm

25)25%

26)44cm

27)15

28)105 km/h

29)60

30)23 min

Paper 2

$$1)22/7 \times 56 = 176$$

176 + 100 + 100 = 376m

2)118°

$$3)40 \times 2 = 80$$

$$110 - 80 = 30$$

$$4 - 2 = 2$$

$$30 \div 2 = 15$$

$$4)450 \div 100 \times 130 = 585$$

$$585 - 450 = 135$$

10% of saving → 135

100% of saving \rightarrow **1350**

1350 + 450 = \$1800

Page 1 to 3

page 1

7)1 -
$$\frac{1}{4}$$
 = $\frac{3}{4}$
 $\frac{3}{4} \div \frac{1}{8}$ = $\frac{3}{4} \times \frac{8}{1}$ = 6

9)a)1K years old b)26K years old

10)2/5 = 1/10 of original
1/5 = 1/20 of original
5/5 = 5/20 of original
1 - 5/20 = 15/20
15/20 of original
$$\rightarrow$$
450
1/20 of original \rightarrow 30
20/20 of original \rightarrow 600

11)\$85.05

12)65 x 3 = 195
195
$$\div$$
75 = 23/5
60 \div 5 x 3 = 36



a)195km b)1354 or 1.54p.m.

```
13)2800÷100 x 80 = 2240

2240÷100 x 7 = 15680

2240÷100 x 107 = 239680

a)$156.80

b)$2396.80
```

15)a)6 + 5 = 11
b)/144 = 12
12 + 1 = 13
c)20 - 1 = 19
19 x 19 = 361
361 - 1 = 360
360
$$\div$$
 2 = 180
180 + 1 = 181

16)1.4 x
$$\frac{3}{4}$$
 = 1.05
7.2 - 1.05 = 6.15
6.15 ÷ 2 = 3.075
3.075 ÷ 3 x 4 = 4.1
4.1 + 1.4 = 5.5
5.5 ÷ 2 = 2.75
5.5 ÷ 4 x 3 = 4.125
4.125 + 2.75 = 6.875
6.875 ≈ 6.9
a)4.1km/h
b)6.9km

17)900ml

18)1200



NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2013

PRIMARY 6 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name:	, 	()		
Class: Primary 6 ()				
Date:	.	•.	÷ .		
Parent's Signature:					
Any query on marks awa seek your understanding of marks will lead to delay	in this m	atter as a	anv dela	in the co	2013 We
DO NOT OPEN THIS BO	OKLET (JNTIL YO	OU ARE	TOLD TO	DO SO.

ANSWER ALL QUESTIONS. YOU ARE ALLOWED TO USE A CALCULATOR.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

PAPER 1 (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)

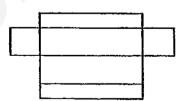
- 1 Which one of the following numbers is not a factor of 84?
 - (1) 7
 - (2) 12
 - (3) 27
 - (4) 42
- 2 Arrange the following fractions in increasing order.

$$\frac{2}{3}$$
, $\frac{5}{8}$, $\frac{1}{4}$

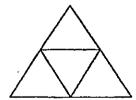
- (1) $\frac{5}{8}$, $\frac{2}{3}$, $\frac{1}{4}$
- (2) $\frac{1}{4}$, $\frac{2}{3}$, $\frac{5}{8}$
- (3) $\frac{2}{3}$, $\frac{5}{8}$, $\frac{1}{4}$
- (4) $\frac{1}{4}$, $\frac{5}{8}$, $\frac{2}{3}$

- 3 Find the value of $3203 \div 5$.
 - (1) 64.6
 - (2) 640.6
 - (3) 646
 - (4) 6406
- The number of boys in a club increased to 25 after 5 more boys joined the club. Find the percentage increase in the number of boys.
 - (1) $16\frac{2}{3}\%$
 - (2) 20%
 - (3) 25%
 - (4) 80%
- 5 Which one of the following figures is the net of a solid?

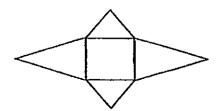
(1)



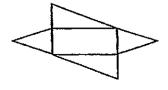
(2)



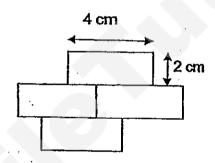
(3)



(4)

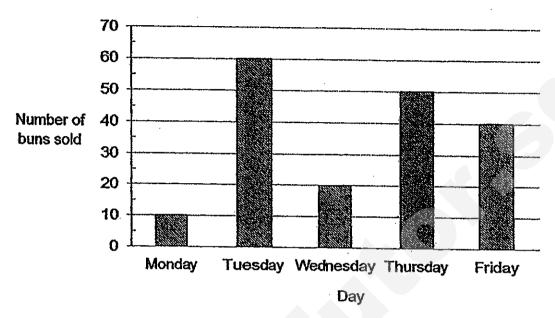


- 6 What is the area of a square with a perimeter of 64 cm?
 - (1) 8 cm²
 - (2) 32 cm²
 - (3) 64 cm²
 - (4) 256 cm²
- 7 The figure below is made up of 4 identical rectangles. What is the perimeter of the figure?



- (1) 20 cm
- (2) 28 cm
- (3) 36 cm
- (4) 48 cm

The bar graph below shows the number of buns sold by a confectionery shop from Monday to Friday.



On which day was the number of buns sold twice that of the number of buns sold on Wednesday?

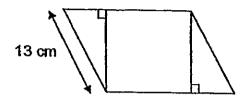
- (1) Monday
- (2) Tuesday
- (3) Thursday
- (4) Friday

- 9 Which one of the following numbers is the largest odd number?
 - (1) 3598
 - (2) 3859
 - (3) 3895
 - (4) 3958
- Which one of the following statements is not true?
 - (1) 3:7 = 6:14
 - $(2) \quad 15:12 = 5:4$
 - (3) 30:10 = 9:2
 - (4) 50:25 = .2:1

- 11 What is the value of $(\frac{2}{3} \frac{1}{2}) \times \frac{9}{4}$?
 - (1) $\frac{2}{27}$
 - (2) $\frac{3}{8}$
 - (3) $2\frac{5}{8}$
 - (4) $13\frac{1}{2}$
- 12 Emma is w years old now. Keith is 3 times as old as Emma now. Hamid is 4 years older than Keith now. How old was Hamid 5 years ago?
 - (1) (w+2) years old
 - (2) (w + 12) years old
 - (3) (3w-1) years old
 - (4) (3w + 9) years old

- Mr Hewitt left his house at 7.45 a.m. and drove a distance of 105 km to his office. What time did he arrive at his office given his average speed for the journey was 70 km/h?
 - (1) 8.15 a.m.
 - (2) 8.20 a.m.
 - (3) 8.50 a.m.
 - (4) 9.15 a.m.
- 14 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) 150%
 - (4) 192%

The figure below is made up of a square and 2 identical right-angled triangles. The area of the square is 144 cm². The perimeter of the figure is 60 cm. Find the area of one of the triangles.



- (1) 30 cm²
- (2) 32.5 cm²
- (3) 60 cm²
- (4) 72 cm²

Nam	ne:		()	Class: Pr 6 ()
P6 S	SA1 2013					
PAP	ER 1 (BOOKLET B)				
Que: provi	stions 16 to 25 car ided. For questioned.	ry 1 mark ea s which requ	ach. Writ Iire units,	e your a give you	answers in the or answers in	e spaces the units
					(1	0 marks)
46	Cimplif. 00 5					
16	Simplify 20y + 5 +	· 2y 6y × 3,				
				Ans:	·	
_						
17	Find the value of	4990 – 2910	+ 90.			
						•
<u> </u>			,	Ans:		
	•					

18 Find the value of $(19+2\times3)-28\div7$.

Ans:

19 What is the missing fraction in the box?

$$93.651 = 93 + \frac{3}{5} + \boxed{?} + 0.011$$

Ans:

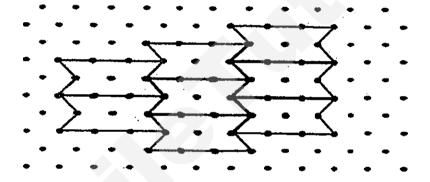
A total of \$2643.58 was collected from a Flag Day on Saturday. Round off this amount to the nearest ten dollar.

Ans: \$

The usual price of a watch was \$250 before GST. Geok Im bought it at 20% discount. How much did she pay for the watch inclusive of the 7% GST?



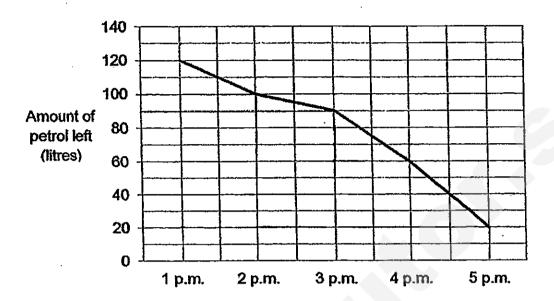
22 Shade a unit shape in the tessellation below.



23 Express 8045 g in kg.

Ans:	 ka

The graph below shows the amount of petrol left in the tank of a lorry from 1 p.m. to 5 p.m..



How much petrol was used from 2 p.m. to 5 p.m.?

Ans:	Z
------	---

A sum of money was shared between Gary and Ahmad in the ratio 4:7. Gary received \$21 less than Ahmad. Find the sum of money shared by the two children.

Ans: \$_____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. Marks will be awarded for relevant number sentences. For questions which require units, give your answers in the units stated.

(10 marks)

26	Mei needs twelve 250-gram packets of flour to bake cakes.	Instead of
	buying 250-gram packets, she decides to buy 500-gram pack	ets. How
	many 500-gram packets of flour does she need to buy?	

Ans:____

27 Pencils are sold at the following prices as shown in the table below.

Pencil	Price
1 pencil	\$0.15
A pack of 5 pencils	\$0.65
A pack of 10 pencils	\$1.20

What is the minimum amount of money that Sujata has to pay for 38 pencils?

Ans: \$	
---------	--

A cup is $\frac{1}{3}$ filled with water. All the water from the cup is poured into an empty jug. The capacity of the jug is 4 times that of the cup. There are 10 ml of water in the jug now. How much more water is needed to fill the jug to the brim?

Ali cycled from his house to the library at an average speed of 16 km/h and cycled back from the library to his house at an average speed of 20 km/h. He took 27 minutes to complete the whole journey. Find the distance between Ali's house and the library.

Ans:		km
------	--	----

30 Study the table below. The average mass of the 4 children is 50 kg. Given that the ratio of Isabelle's mass to Ranjit's mass is 11:10, find Meng Chuan's mass.

Name	Mass (kg)
Mary	54
Isabelle	?
Meng Chuan	?
Ranjit	50

Ans:	kg
------	----

END OF PAPER



NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2013

PRIMARY 6 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name:		()
Class: Primary 6 ()	٠	
Date:			٠.
Parent's Signature:			

Any query on marks awarded should be raised by 22 May 2013 We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS. YOU ARE ALLOWED TO USE A CALCULATOR.

PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. Marks will be awarded for relevant number sentences. For questions which require units, give your answers in the units stated.

(10 marks)

1 If m = 2, find the value of $28m \times 5 - 2m \times 10$.

Ans:_____

Mrs Boey drove at an average speed of 72 km/h from her office to her son's school in 40 minutes. How much time would she have saved when she increased her speed by 8 km/h?

Ans: _____min

The mass of Parcel A and Parcel C are 200 g and 800 g respectively. Parcel A is 250 g lighter than Parcel B. Find the ratio of the mass of Parcel B to the total mass of Parcel A and Parcel C. Express the answer in its simplest form.

Ans: _____

A piece of steel wire, measuring 240 cm long, is used up completely to form 4 identical squares as shown below. Find the length of one side of each of the squares.



Ans:_____cm

5 $\frac{4}{5}$ of Muthu's height is equal to $\frac{2}{3}$ of George's height. How many times is George as tall as Muthu?

Ans: _____

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Marks will be awarded for relevant number sentences. For questions which require units, give your answers in the units stated.

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

(50 marks)

The table below shows the postage charges for sending parcels to Happyland.

Mass of parcel	Postage
	charges
First 40 g	\$1.00
Every additional 50 g or part thereof	\$1.20

- (a) Find the postage charges for sending a parcel weighing 80 g to Happyland.
- (b) Kylar wants to send a parcel weighing 364 g to his friend in Happyland. How much must be pay for the postage?

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

A van left Town E at 11 00 and travelled towards Town F. Two hours later, a car left Town E for Town F and travelled along the same route. The car passed the van at 16 00. The average speed of the car was 40 km/h faster than the van. Find the average speed of the van.

Ans:

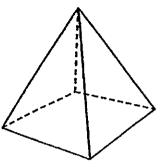
[3]

8. A triangle and a circle overlap to form the figure below. The ratio of the area of the triangle to that of the circle is 7:10. Given that $\frac{1}{5}$ of the circle is shaded, find the ratio of the shaded part of the figure to its unshaded part.

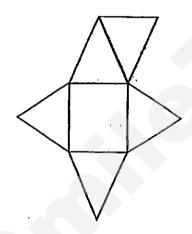


Ans: ______[3]

9 (a) Study the figure shown below. How many triangular faces does it have?



- (b) In the following figure, cross out (X) the extra shape to make it the net of a solid. [1]
- (c) Name the solid that can be formed with the net obtained.



Ans:	(a)	[1]
------	-----	-----

The table below shows the number of hours which some pupils spent on their homework in a week.

Number of hours spent on homework by each pupil	4	8	12	16
Number of Pupils	2	2	?	3

7"3 .:

- (a) The total number of hours which the pupils spent on their homework in a week was 108. How many pupils spent 12 hours on their homework?
- (b) What was the average number of hours spent by each pupil in a week?

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

Su Lin's monthly income is \$350 less than her brother. Every month, each of them spends an equal amount of \$500 and saves the rest of their money. Su Lin saves a total of \$2100 and her brother saves a total of \$4200 after a few months. What is their total monthly income?

Ans:	 [4]

- Box A contains some red and blue beads. Box B contains twice as many beads as Box A. Box B contains only red beads. In Box A, the ratio of the number of red beads to the number of blue beads is 7:5.
 - (a) What fraction of the total number of beads in both boxes are blue?
 - (b) There are 85 more red beads in Box B than in Box A. Find the total number of beads in both boxes.

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

- At first, 25% of Krishnan's money was the same as $33\frac{1}{3}$ % of Jaden's money. After Jaden received \$60 from his father and Krishnan spent \$256, Jaden then had $2\frac{1}{2}$ times as much money as Krishnan
 - (a) How much money did Krishnan have at first?
 - (b) How much money did Jaden have in the end?

•	Ans:	(a)	[2]
		(b)	[2]

14 The figures below are made up of circles and rectangles. Study the figures carefully and answer the following questions.

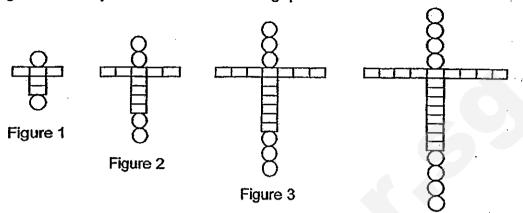


Figure 4

Figure	1	2	3	4
Number of Circles	2	4	6	8
Number of Rectangles	5	9	13	17

- (a) How many circles are needed to form Figure 14?
- (b) How many rectangles are needed to form Figure 50?
- (c) How many more rectangles than circles are there in Figure 80?

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

Figure 1 is made up of a rectangle and 2 identical isosceles triangles. The height of the triangle is equal to the breadth of the rectangle as shown in Figure 1. The length of the rectangle is 18 cm. The length of AB is 15 cm. Figure 2 is made up of 4 sets of Figure 1. The area of figure 2 is 1728 cm². Find the perimeter of Figure 2.

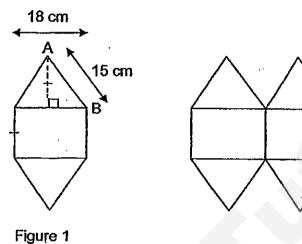


Figure 2

The perimeter of a rectangle is $1\frac{5}{6}$ times the perimeter of a square. The area of the square is 225 cm². The length of the rectangle is 1.2 times the breadth of the rectangle. Find the area of the rectangle.

Ans:	 [5]

There were 2535 chicken pies and apple pies at first. More pies were baked. As a result, there was a 20% increase in the number of chicken pies and a 60% increase in the number of apple pies. The ratio of the number of chicken pies to that of apple pies then became 3:8. Find the number of chicken pies at first.

Ans:	 [5]

18. There were some oranges and apples at a fruit stall. The ratio of the number of oranges to that of apples was 5:3. In the morning, $\frac{3}{7}$ of the oranges and some apples were sold. The ratio of the number of oranges to that of apples became 10:7. The fruit seller bought 60 oranges and 240 apples in the afternoon. In the end, the number of oranges left was the same as the number of apples left. How many apples were there at the fruit stall at first?

Ans:	[5]

END OF PAPER



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: NANYANG

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q 7	08	09	010	011	012	013	014	015
3	4	2	3	2	4	2	4	3	3	2	3	4	2	1

16)4y + 5

17)2170

18)21

19)1/25

20)\$2640

21)\$214

22)

23)8.045kg

24)80

25)\$77

26)6

28)110ml

27)\$4.70

29)4

30)41kg

Paper 2

1)140m - 20m = 120m $120 \times 2 = 240$

2)40/100 = 2/3

 $72 \times 2/3 = 48$

 $48 \div 80 = 3/5$

=36/60

 $40 - 36 = 4 \min$

Page 1 to 4

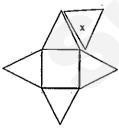
page 1

$$4)4 \times 4 = 16$$

 $240 \div 16 = 15$ cm

8)2:13

9)a)4 b)



c)pyramid

10)a)
$$4 \times 2 = 8$$

 $8 \times 2 = 16$
 $16 \times 3 = 48$
 $48 + 16 + 8 = 72$
 $108 - 72 = 36$
 $36 \div 12 = 3$
b) $3 + 2 + 2 + 3 = 10$
 $108 \div 10 = 104/5h$

12)a)
$$7u + 5u = 12u$$

 $12u \times 2 = 24u$
 $24u + 12u = 36u$
 $5 \div 36 = 5/36$
b) $24u - 7u = 17u$
 $85 \div 17 = 5$
 $5 \times 36 = 180$

$$15)1728 \div 4 = 432$$

$$432 \div 2 = 216$$

$$216 \div 18 = 12$$

$$16 \times 15 = 240$$

$$240 + 24 = 264cm$$

```
16)\sqrt{225} = 15
    (15+15) \times 2 = 60
    60 \times 15/6 = 110
   110 \div 2 = 55
   55 \div 2.3 = 25
   25 \times 1.2 = 30
   25 \times 30 = 750 \text{cm}_2
17) L : A
    3: 8 - units (u)
                                  120→3
                                   20 > 1/2
   21/2: 5
                                  100 > 21/2
= 1 : 2 - parts(p)
                                   160→8
                                    20→1
                                   100→5
3p→2535
 1p→845
```



RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 1) PRIMARY 6

rading.	
Form Class: P6	Banded Math Class: P6
Date: 9 May 2013	Duration: 50 min
Your Score	
Paper 1 (Out of 40 marks)	
Paper 2 (Out of 60 marks)	
Overall (Out of 100 marks)	

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

SECTION A (20 marks)

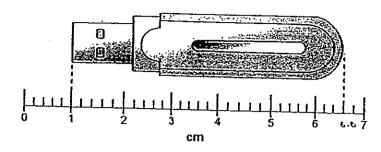
Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

- 1. In 691 400, the value of the digit 9 is _____.
 - (1) 90
 - (2) 900
 - (3) 9 000
 - (4) 90 000
- 2. Arrange the following fractions in ascending order.

$$\frac{4}{7}$$
, $\frac{1}{4}$, $\frac{5}{11}$

- (1) $\frac{5}{11}$, $\frac{4}{7}$, $\frac{1}{4}$
- (8) $\frac{4}{7}$, $\frac{5}{11}$, $\frac{1}{4}$
- $(3) \quad \frac{1}{4} , \frac{4}{7} , \frac{5}{11}$
- (4) $\frac{1}{4}$, $\frac{5}{11}$, $\frac{4}{7}$

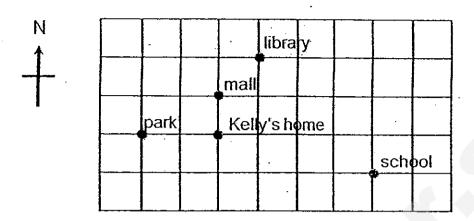
3. What is the length of the thumb drive as shown in the figure below?



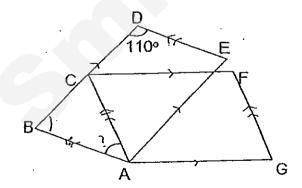
- (1). 5.3 cm
- (2) 5.6 cm
- (3) 6.3 cm
- (4) 6.6 cm
- 4. The cost of sending a parcel overseas is (0.02p + 8), where p is the mass of the parcel in grams. What is the cost of sending a parcel that weighs 500g?
 - (1) \$8.10
 - (2) \$10
 - (3) \$10.80
 - (4) \$18
- 5. In a class of 40 pupils, 21 pupils were boys.
 What was the ratio of the number of boys to the number of girls?
 - (1) 19:21
 - (2) 19:40
 - (3) 21:19
 - (4) 21:40

- 6. Which of the following fractions is smaller than $2\frac{1}{3}$?
 - $(1) \qquad \frac{8}{3}$
 - (2) $\frac{15}{6}$
 - (3) $\frac{21}{9}$
 - $(4) \frac{27}{12}$
- 7. Express $1\frac{3}{4}$ as a decimal.
 - (1) 1.75
 - (2) 1.68
 - (3) 1.60
 - (4) 1.34

8. Study the diagram below. Which of the following statements is correct?



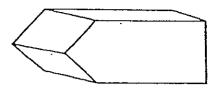
- (1) The mall is west of the park.
- (2) The library is north of Kelly's home.
- (%) The school is north-east of the library.
- (4) Kelly's home is south-west of the library.
- The figure below shows 2 identical parallelograms, ABDE and ACFG.
 BCD is a straight line and ∠BDE is 110°. Find ∠CAB.



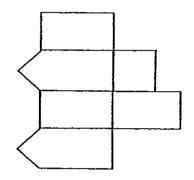
- (1) 35°
- (2) 40°
- (3) 55°
- (4) 70°

10. E	ress 2.4 m as a percentage of 60 cm.	
. (1	2500%	•
(2	400%	
(3	25%	
(4	4%	
11. At	st, there were 95 apples and oranges altogether at the fruit store.	
Afi	of the apples and 15 of the oranges were sold, there were thrice as	
ma	apples as oranges left. How many more apples than oranges were solo	1 ?
(1)	1	
(2)	16	
(3)	31	
(4)	4	
12. 2 te	3 hundredths and 4 thousandths is	
(1)	20.034	
(2)	20.340	
(3)	23.004	
(4)	23.040	

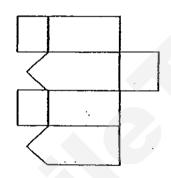
13. Identify the correct net for the figure shown below.



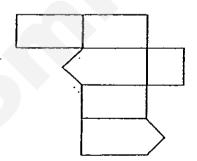
(1)



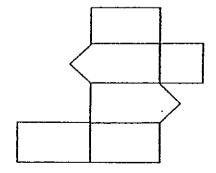
(2)



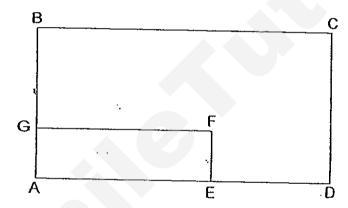
(3)



(4)



- 14. Kenny always spends 80% of his allowance and saves the rest. If he increases his spending by 10%, his spending will increase by \$16. How much is Kenny's allowance?
 - (1) \$40
 - (2) \$160
 - (3) \$200
 - (4) \$8000
- 15. The figure below is made up of 2 rectangles.



The ratio of the length AE: AD is 3:5 and the length of AG: AB is 1:3. What is the ratio of the area of rectangle AGFE to the area of rectangle ABCD?

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

SECTION B (20 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. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. What is the difference between the largest and smallest possible 4-digit whole numbers that can be formed using the digits 4, 3, 9, 1?
For each number, each digit can only be used once.

Ans: _____

17. Find the value of $100 - 20 \div 2 \times 4$.

Ans: _____

18. Alicia made 48 cupcakes. She gave away $\frac{3}{8}$ of them. How many cupcakes had she left?

Ans: ____

19. Find the value of $\frac{3}{4} + \frac{5}{6}$ Express the answer as a mixed number in the simplest form.

Ans: _____

20. Express $3\frac{1}{40}$ as a decimal.

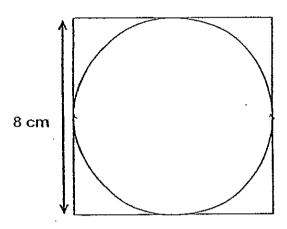
Ans: ____

21. What is 4 km 4 m in kilometres?

Ans: km

22. The figure below is made up of a square and a circle.

Find the circumference of the circle. (Take π as 3.14)



Ans: cm

23. Miss Lim bought 6 pizzas. $\frac{2}{3}$ of the pizzas were shared by 4 girls equally. What fraction of all the pizzas did each girl receive?

Ans: ____

24. The table below shows record of Megan's mass over 4 months.

	September	October	November	December	Average	
Mass	62 kg	55 kg	?	58 kg	57 kg	

What was Megan's mass for November?

Ans:	kg
	<u></u>

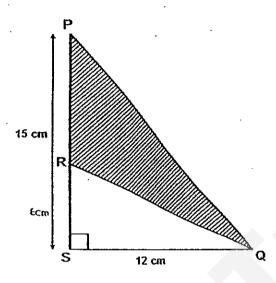
25. Mr and Mrs Tan watched a performance which was 1 hour and 35 minutes long. It ended at 9.20 p.m..

What time did the performance start? Give your answer in 12-hour clock.

Λ		
Ans:		

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space 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.

26. In the figure below, PRS is a straight line and SQ is twice as long as RS. What is the area of triangle PQR?



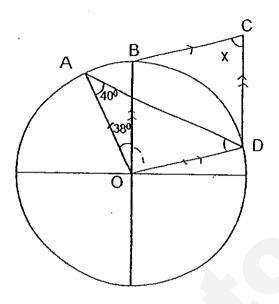
Ans: cm²

27. Find the sum of all the whole numbers from 1 to 120.

Ans: _____

28.	Betty is $(5y + 1)$ years old. years' time?	Abby is 4 years older. What will be their total age in 6	
	•		
		Ans:years old	1
	•		
20	At		
29.	At a supermarket, the orange	s were either sold at 55 cents each or in bags of 4 at \$2	
	nor had Miss Too hought and	-41.05	
	per bag. Miss Tan bought ex		
	per bag. Miss Tan bought ex	actly 35 oranges. f money Miss Tan spent on the oranges?	
	per bag. Miss Tan bought ex		
	per bag. Miss Tan bought ex		
	per bag. Miss Tan bought ex		
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	per bag. Miss Tan bought ex		

30. In the figure shown below, OBCD is a rhombus and O is the centre of the circle. Given \angle AOB is 38° and \angle OAD is 40°, find \angle x.



Ans:	٥
Ans.	· ·

End of Paper © Please check your work carefully ©

Setters: Mrs. Jacqueline Seto Mr. Ho Kai Huat Mr. Ronald Lee



RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 2) PRIMARY 6

Form class: P6	Banded Math Class: P6
Date: 9 May 2013	Duration: 1 h 40 min
Your Score (Out of 60 marks)	

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

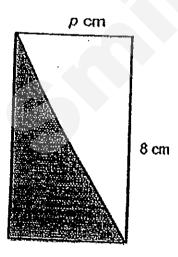
1. Alicia bought some marbles from a shop.

The number of red marbles is thrice as many as the number of blue marbles. The number of blue marbles is twice as many as the number of green marbles.

What is the ratio of the number of red marbles to the number of green marbles?

	•		
Ans:		621	i
		[2]	i

- 2. Find the area of the shaded part.



Ans:	cm²[[2]
------	------	-----

3. Eddy takes $\frac{1}{3}$ hour to walk to his school at an average speed of 4.5 km/h. If he increases his speed by 1.5 km/h, how long will he take to walk to school?

Ans: _____h [2]

4. A baker decorated 6 identical cakes with 72 strawberries.
How many cakes could he decorate with 180 strawberries?

Ans: [2]

5.	The price of a leather sofa, inclusive of 7% GST, is \$1618.91. What is the price of the leather sofa before GST?
	Ans:\$[2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

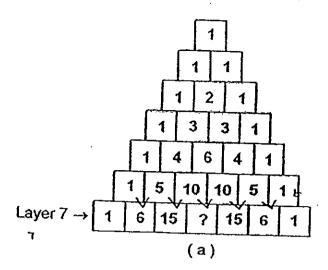
- 6. At first, Jolly had $\frac{5}{8}$ of the number of stickers Kelly had. When Kelly gave 36 stickers to Jolly, both had the same number of stickers.
 - (a) How many more stickers did Kelly have than Jolly at first?
 - (b) How many stickers were there altogether?

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

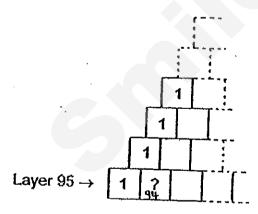
7. Gillian had 3 types of coins, 10ϕ , 20ϕ and 50ϕ . The ratio of the number of 10ϕ coins to the number of 20ϕ coins to the number of 50ϕ coins is 2:5:n. If the value of all her 10ϕ coins is \$12, express the number of 50ϕ coins she had in terms of n.

	Ans:	[3]
Page 5 of 15	Need a home tutor? Visit sr	iletutor.sg

8. The number patterns below shows the top 7 layers of a pyramid.



- a) What is the missing number in Layer 7?
- (b) How many numbers are there in Layer 25?
- (c) The figure below shows part of the pyramid with Layer 95.



What is the second number in Layer 95?

Ans: (a) [1]

b) ______ [1]

(c) ,______ [1]

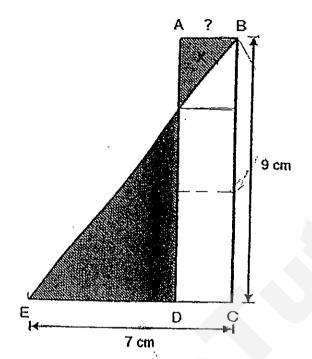
Page 6 of 15

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- Adeline went shopping with a sum of money. She spent all of her money in the store 2 stores. In each store, she spent \$18 more than half of what she had when she entered the store.
 - (a) How much did she spend at the second store?
 - (b) How much money did she have at first?

Ans: (a)	[1]

In the figure, ABCD is a rectangle and BCE is a triangle.
 BC = 9 cm and CE = 7 cm. Shaded area X is 13.5 cm² smaller than shaded area Y What is the length of AB?



Jane bought a total of 55 cupcakes and mini buns for a party. Each cupcake cost \$3.60 and each mini bun cost \$1.40. Jane spent a total of \$151.80. How many cupcakes did Jane buy?

[4]

 $\frac{3}{5}$ of the pupils at a camp were girls. After 12 girls and 4 boys left the camp, the ratio of the number of girls to the number of boys became 4:3. How many pupils were at the camp at first?

[4]

13.	Sugment \$152.45	to the terminal propagations of the second	
13.	· · · · · · · · · · · · · · · · · · ·		
	A bookmark cost \$3.80 and a key chain cost \$5.3	3 5.	
	Sue bought 9 fewer key chains than bookmarks.		•
	How many key chains and bookmarks did she bu	y altogether?	
	·		
		•	
		·	
		•	
		Ans:	[4]
		· · · · · · · · · · · · · · · · · · ·	
			

- 14. At 8.30 a.m., a motorcycle left Town A for Town B travelling at 60 km/h.
 - $1\frac{1}{2}$ hour later, a car left Town A travelling at 85 km/h.

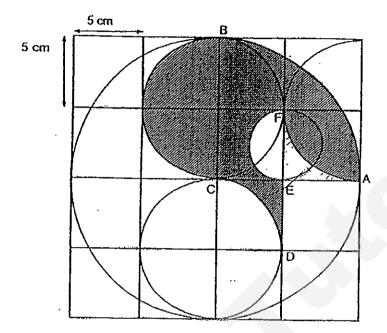
The car overtook the motorcycle midway between Town A and Town B, and reached Town B first.

- (a) Find the distance covered by the motorcycle when the car left Town A.
- (b) What was the distance between Town A & Town B?

Ans: (a)	[1]
(b)	[3]



 Look at the figure below. Find the total area of the shaded parts. Give your answer correct to 2 decimal places.



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

16. 40% of the people who joined a newly opened fitness club were female. After one year, the number of female members decreased by 20% and the number of male members increased by 45%. In the end, the fitness club had 228 more members than a year ago. What was the difference between the number of male and female members at first?

Ans:						. ['	4]	
No	od a l	nomo	++.	r2 \/	icit.cr	nilot	lutor (_

Page 13 of 15

17. At a shop, $\frac{3}{10}$ of the fruits are papayas, $\frac{3}{5}$ of the remainder are durians and the rest are mangoes. There are 105 more durians than mangoes. After selling $\frac{2}{5}$ of the papayas, how many fruits are left?

Ans:			[5]	
	Nood a ba	ma tutar	·2 Vioit om	ilotutor

Page 14 of 15

18.	Betty had 3440 red, yellow and blue beads. The number of red and yellow beads that Betty had was equal.
	After using only some yellow and blue beads to make a necklace, she had $\frac{5}{7}$
	of yellow beads and $\frac{3}{5}$ of blue beads left.
	Given that the number of beads left was 2820, how many blue beads did she have at first?
,	
	Ans:[5]
	-End of Paper-
Catter	Please check your work carefully ③
	Mrs. Jacqueline Seto Mr. Ho Kai Huat Mr. Rouald Lee

Exam Paper 2013 Answer Sheet

School: RAFFLES GIRLS' PRIMARY SCHOOL

Subject: PRIMARY 6 MATHEMATICS

Term: SA1

Paper 1

1)	4	6)	4	11)	1	
2)	4	7)	1	12)	1	
3)	2	8)	4	13)	2	
4)	4	. 9)	2	14)	3	
5)	3	10)	2 :	15)	3	

16.8082

17.60

18.30

19. $1^{7}/_{12}$

20. 3.025

21. 4.004

22, 25, 12

23. 1/6

24. 53

25. 7.45 p.m.

26. 12 cm \div 2 = 6 cm 15 cm - 6 cm = 9 cm $\frac{1}{2}$ x 9 cm x 12 cm = **54 cm**²

27. 120 + 1 = 121 $121 \times 60 = 7260$

28. B \rightarrow 5y + 1 A \rightarrow 5y + 1 + 4 = 5y + 5 B + A \rightarrow 5y + 1 + 5y + 5 = 10y + 6 10y + 6 + 6 + 6 = (10y + 18) years old

29. $35 \div 4 = 8R3$ 8 x \$2 = \$16 3 x 55ϕ = \$1.65

$$30.\ 180^{\circ} - 40^{\circ} - 40^{\circ} - 38^{\circ} = 62^{\circ}$$

Paper 2

- 1. R:B:G 3:1 6:2:1 Answer: 6:1
- 2. $\frac{1}{2}$ x p x 8 = 4p cm²
- 3. $4.5 \text{ km/h} \times \frac{1}{3} \text{ h} = 1.5 \text{ km}$ 4.5 km/h + 1.5 km/h = 6 km/h $1.5 \text{ km} \div 6 \text{ km/h} = \frac{1}{3} \text{ h}$
- 4. 6 cakes \rightarrow 72 1 cake \rightarrow 72 ÷ 6 = 12 180 ÷ 12 = **15**
- 5. $107\% \rightarrow \$1618.91$ $1\% \rightarrow \$^{\$1618.91}/_{107}$ $100\% \rightarrow \$^{\$1618.91}/_{107} \times 100 = \1513
- 6. (a) $3u \rightarrow 36$ 6u $\rightarrow 36 \times 2 = 72$
 - (b) $1u \rightarrow 36 \div 3 = 12$ $26u \rightarrow 12 \times 26 = 312$
- 7. $$12 \div 10 = 120$ $2u \rightarrow 120$ $1u \rightarrow 120 \div 2 = 60$ $1u \rightarrow 60 = 60n$
- 8. (a) 20
 - (b) 25
 - (c) 95 1 = 94
- 9. (a) $$18 \times 2 = 36
 - (b) \$36 + \$18 = \$54 \$54 x 2 = **\$108**
- 10. $\frac{1}{2}$ x 7 cm x 9 cm = 31.5 cm² 31.5 cm² - 13.5 cm² = 18 cm² 18 cm² ÷ 9 cm = **2 cm**

$$11.55 \times $1.40 = $77$$

$$$151.80 - $7 = $74.80$$

$$$3.60 - $1.40 = $2.20$$

$$$74.80 \div $2.20 = 34$$

$$12.3 \times (3u - 12) = 4 \times (2u - 4)$$

$$9u - 36 = 8u - 16$$

$$9u - 8u = 36 - 16$$

$$1u = 20$$

$$5u = 20 \times 5$$

$$13.\$5.35 \times 9 = \$48.15$$

$$$201.30 \div $9.15 = 22$$

$$22 - 9 = 13$$

$$22 + 13 = 35$$

12:17 (Speed)

12:17 (Distance)

 $60 \text{ km/h} \times 1\frac{1}{2}\text{h} = 90 \text{ km}$

(b) $5u \rightarrow 90 \text{ km}$

$$1u \rightarrow 90 \text{ km} \div 5 = 18 \text{ km}$$

$$34u \rightarrow 18 \text{ km x } 34 = 612 \text{ km}$$

$15. \frac{1}{4} \times \pi \times 10 \times 10 = 25\pi$

$$\frac{1}{2} \times \pi \times 2.5 \times 2.5 = 3.125\pi$$

$$\frac{1}{2} \times \pi \times 5 \times 5 = 12.5\pi$$

$$25\pi - 3.125\pi + 12.5\pi \approx 107.99 \text{ cm}^2$$

40:60

32u: 87u

87u + 32u = 119u

119u - 40u - 60u = 19u

19u → 228

 $1u \to \frac{228}{19}$

60u - 40u = 20u

 $20u \rightarrow \frac{228}{19} \times 20 = 240$

17. P:0

3:7

15:35

D:M

3:2

21: 14

$$21u - 14u = 7u$$

 $7u \rightarrow 105$
 $50u \rightarrow {}^{105}/_{7} \times 50 = 750$
 $21u \rightarrow {}^{105}/_{7} \times 21 = 315$ (Durian)
 $15u \rightarrow {}^{105}/_{7} \times 15 = 225$
 $\frac{7}{5} \times 225 = 90$
 $750 - 90 = 660$
18. $14u + 5p \rightarrow 3440$
 $168u + 60p \rightarrow 3440 \times 12 = 41280$
 $12u + 3p \rightarrow 2820$
 $168u + 42p \rightarrow 2820 \times 14 = 39480$
 $60p - 42p = 41280 - 39480$
 $18p = 1800$
 $1p = 100$
 $5p = 100 \times 5$
 $= 500$



Rosyth School Semestral Assessment 1 Examination 2013 Primary 6 Mathematics

Name:	Register No.
Class: Pr 6	
Date: 14 May 2013	Parent's Signature:
Total Time for Booklets A	and B : 50 minutes
	DADED 1

(Booklet A)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	202 Con	

^{*} This booklet consists of 6 pages (including this cover page)

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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.

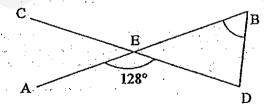
(20 marks)

1. Arrange the following fractions from the smallest to the largest.

$$\frac{7}{10}$$
, $\frac{1}{12}$, $\frac{2}{5}$

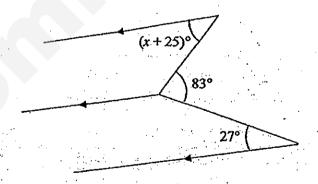
- (1) $\frac{1}{12}$, $\frac{2}{5}$, $\frac{7}{10}$
- (2) $\frac{2}{5}$, $\frac{1}{12}$, $\frac{7}{10}$
- (3) $\frac{1}{12}$, $\frac{7}{10}$, $\frac{2}{5}$
- (4) $\frac{2}{5}$, $\frac{7}{10}$, $\frac{1}{12}$
- 2. Which one of the following is the best estimate of 26.124 + 87?
 - (1) 0.03
 - (2) 0.3
 - $(3) \cdot 3$
 - (4) 30
- 3. 5 hundreds, 8 tenths and 9 thousandths is _____
 - (1) 580,009
 - (2) 500.980
 - (3) 500.809
 - (4) 500.089

- 4. Which of the following can be divided by 3 and gives a remainder of 1?
 - (1) 1 056
 - (2) 2 081
 - (3) 3 024
 - (4) 4 540
- 5. Kelly saved \$n every week for the past eight weeks. This week, she saves \$2 less than last week. How much did she save altogether?
 - (1) \$6n
 - (2) \$(8n-2)
 - (3) \$(9n-2)
 - (4) \$(9n + 2)
- 6. Which one of the following is the same as 4 020 g?
 - (1) 4 kg 2 g
 - (2) 4 kg 20 g
 - (3) 40 kg 2 g
 - (4) 40 kg 20 g
- 7. The figure below is not drawn to scale. AB and CD are straight lines. EB = ED. Find ∠EBD.



- (1) 26°
- (2) 52°
- (3) 64°
- (4) 128°

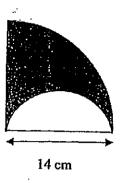
- 8. Mr Teo saved \$200 from his salary every month.
 How much would he have saved 3¹/₄ years later?
 - (1) \$650
 - (2) \$2 400
 - (3) \$7 200
 - (4) \$7 800
- 9. Meili started doing her homework at 8.45 a.m. She took an hour lunch break 3 hours later. After that, she continued doing her work for another $2\frac{1}{2}$ hours. What time did she stop doing her work?
 - (1) 2.15 p.m.
 - (2) 2.45 p.m.
 - (3) 3.15 p.m.
 - (4) 4.15 p.m.
- 10. The diagram below is not drawn to scale. Find the value of x.



- (1) 27°
- (2) 31°
- (3) 56°
- (4) 589

- 11. Julian used $\frac{1}{4}$ of his money as downpayment on a new bicycle, $\frac{3}{8}$ of it on a camera and $\frac{1}{3}$ of the remainder on shoes and a watch. The cost of the watch was \$110 and the shoes cost \$80 more than the watch. How much was the downpayment on the bicycle?
 - (1) \$600
 - (2) \$800
 - (3) \$1 600
 - (4) \$2 400
- 12. A food caterer charges \$11 for meals delivered on time and \$7 for meals delivered late. In April, the company collected \$8 400. For every 12 meals delivered, 3 were delivered late. What was the total number of meals delivered late?
 - (1) 70
 - (2) 210
 - (3) 3
 - (4) 630
- 13. Mr Ramy saved 20% of his salary every month. He donated 50% of his savings to charity. If he donated \$600 each month, what was his monthly salary?
 - (1) \$1 200
 - (2) \$2 000
 - (3) \$3 000°
 - (4) \$6 000

14. The figure below is not drawn to scale. It is made up of a quarter circle and a semi-circle. Find the perimeter of the shaded part in terms of π .



- (1) $(3.5\pi + 14)$ cm
- (2) 10.5π cm
- (3) 14π cm
- (4) $(14\pi + 14)$ cm
- 15. Jasmine and Taufik took part in a race. When Taufik had completed $\frac{1}{3}$ of the race in 15 minutes, Jasmine had ran $\frac{3}{4}$ of the race. Jasmine's average speed for the race was 40 m/min more than Taufik. Find the distance of the race.
 - (1) 600 m
 - (2) 800 m
 - (3) 1 440 m
 - (4) 1 800 m



Rosyth School Semestral Assessment 1 Examination 2013 Primary 6 Mathematics

Name:	Register No.
Class: Pr 6	
Date: 14 May 2013	Parent's Signature:
Total Time for Booklets A ar	nd B : 50 minutes
	PAPER 1 (Booklet B)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are not allowed to use a calculator
- 4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

^{*} This booklet consists of 8 pages (including this cover page)

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(Go on to the next page)

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

(10 marks)

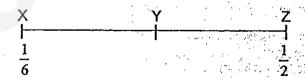
16.	Find the sum	of 41	37	and	6.03
10.	I HIG SIC SOIN	ΟΙ ΤΙ ,		and	U.UU.

Ans:	

17. Lily bought 6 litres of juice. She finished $\frac{5}{12}$ of the juice. How many millilitres of juice had she left?

Ans:	 m	ĺ

In the number line below, X represents $\frac{1}{6}$, Z represents $\frac{1}{2}$ and XY = YZ. What fraction is represented by Y? Leave your answer as a fraction in the simplest form.



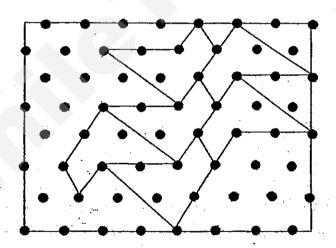
Ans:

19. The average of the 4 numbers shown below is 22.
Which number should be removed to obtain an average of 24 for the remaining numbers?

16, 18, 24, 30

Ans:	

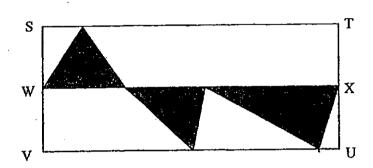
20. Complete the tessellation below by drawing 2 more unit shapes in the grid provided.



(Go on to the next page)

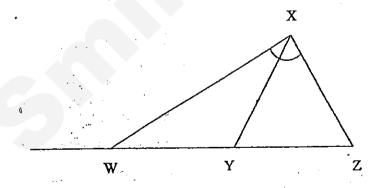
21.	Manesh cut a piece of rope g cm long into 25 equal pieces. In the end, he	
	found that he had 6 cm of the rope left. What was the length of each piece?	
	Express your answer in terms of g .	
	Ans:cm	
•		
22.	A from in oble to pover a distance of 20 and in one immed 18/het is the least	
ZZ.	A frog is able to cover a distance of 30 cm in one jump. What is the least	
	number of jumps it would need to cover a distance of 130 cm?	
	Ans:	
23.	Samy had 54 boxes of pens. Each box contained 8 pens. He repacked all the	
20.		
	pens into boxes of 6 pens each. How many more boxes would be	
	need?	
:		
.,, 2		
s Secondo esta		
Security of Securi		
	Ans:	
	Ans:	

24. In the figure below, STUV is a rectangle. SW = WV and TX = XU. What fraction of the figure is shaded?



Ano:			
Ans:	_		

25. The figure below is not drawn to scale. XYZ is an equilateral triangle.
XY = WY. Find ∠WXZ.

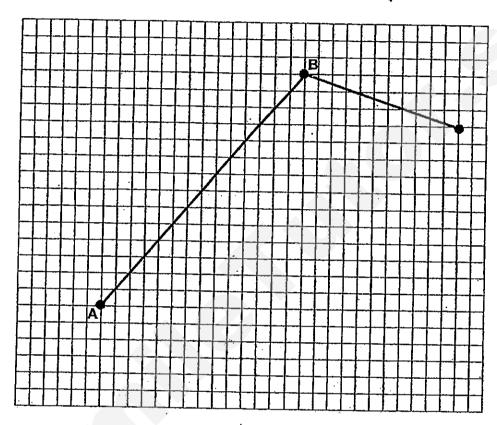


Ans:

Questions 26 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

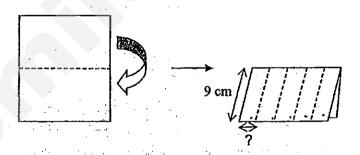
26. Complete the figure below such that ABCD is a parallelogram.



27.	A motorist travelling at 80 km/h took 6 hours to complete his journey. If he
	decreased his speed by 20 km/h, how much longer would he take to
	complete the same journey?

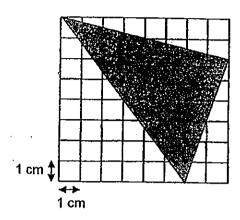
Ans:	·····	h

28. Jenny had a piece of paper with an area 720 cm². She folded it into half as shown in the diagram below (not drawn to scale). Then, she cut the folded paper into 5 equal strips. If the folded paper has a side of 9 cm, find the width of each strip.



Ans:			ĊΠ
7 4 10.		7 7 7	 . •
المحدث الماس	 . f.,		

29. Find the area of the shaded part in the figure shown below.



	•	1
Ans:		cm.

30. Pupils in a swimming class are divided equally into 2 groups. The ratio of the number of boys to the number of girls in Group A is 3:1. The ratio of the number of boys to the number of girls in Group B is 5:2. What is the ratio of the number of boys in Group A to the number of girls in Group B?

Ans:

End of Paper 1



Rosyth School Semestral Assessment 1 Examination 2013 Primary 6 Mathematics

Name:	Register No.
Class: Pr 6	
Date: 14 May 2013	Parent's Signature:
Time: 1 h 40 min	
	DADED 2

PAPER 2

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	ŧ.
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total .	100	

^{*} This booklet consists of 17 pages (including this cover page)

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Questions 1 to 5 carry 2 marks each. Show your worl		
for each question and write your answers in the space require units, give your answers in the units stated.	es provided.	For questions which
	•	(10 marks)

Do not write in this space

The figure (not drawn to scale) below is made up of 4 rectangles.
 Find the perimeter of the whole figure.

18 cm²	45 cm²
8 cm²	20 cm²

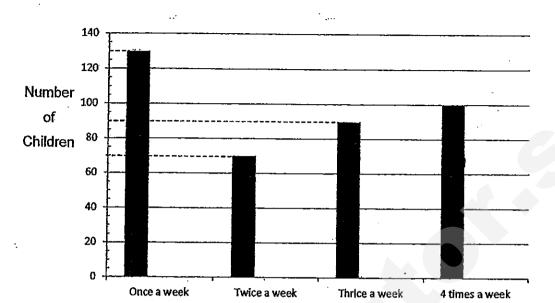
Ans: cm

2. 60 cleaners take 12 days to clean a school. How many cleaners are required to clean the same school in 30 days?

Ans:

2

3. A survey was conducted to find out the number of times some children visited the library in a week.



Number of visits to the library in a week

What fraction of the children visited the library at least twice a week?

Ans

(Go on to the next page)

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4. When Nathan spent $\frac{2}{3}$ of his money and Mark spent $\frac{1}{5}$ of his money, each of them had \$360 left. How much more did Nathan have than Mark at first?

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Ane: \$

5. An amphitheatre at a bird park has a seating capacity of either 84 adults or 112 children. If 39 adults and 35 children have already bought the admission tickets into the amphitheatre, how many more children can enter the amphitheatre?

Ans: _____

Questions 6 to 18, 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)

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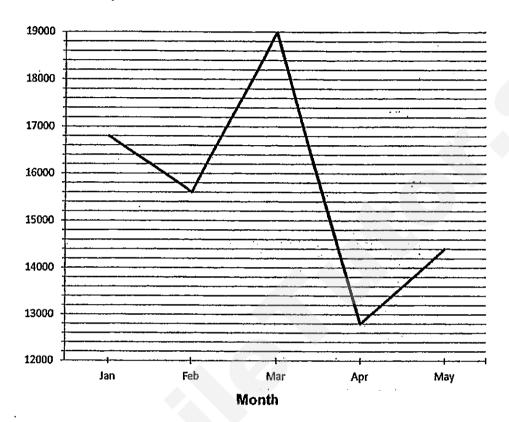
6. The average number of books that were owned by Alice, Billy and Cathy each was 19. After Cathy's sister gave her another 8 books and Alice gave away 5 books, Alice and Cathy had the same number of books. If Billy owned 16 books, how many books did Alice have at first?

Ans: [3m]
(Go on to the next page)

7. Use the information below to answer questions (a) and (b).
The graph below shows the number of cream puffs sold from January to May.
The number of cream puffs sold was recorded at the end of every month.

Do not write in this space

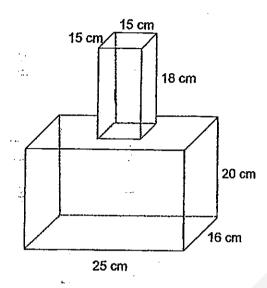
Number of cream puffs sold



- (a) In which month was there the greatest increase in the number of cream puffs sold?
- (b) The total number of cream puffs sold from January to March was $\frac{4}{5}$ the number of cream puffs sold from April to June. How many cream puffs were sold in June?

8. The container shown below was filled with water to a height of 32 cm at first. Then, half of the water was poured out of the container. What was the height of the water level after that?

Do not write in this space



Ans:_____[3m]

9. The ratio of the number of Henry's pencils to the number of Yasmin's pencils was 3:5 at first. After each of them had received 45 pencils, Henry had $\frac{5}{8}$ as many pencils as Yasmin. Henry then bought another 65 pencils. How many more pencils did Yasmin have than Henry in the end?

Do not write in this space

Ans: [3m

ç

10. Ahmad painted some toy cars in blue, red and green. 42 of them were painted in blue. $\frac{7}{10}$ of the remaining toy cars were painted in red. The number of green toy cars was 21% of all the toy cars he painted. How many toy cars did he paint altogether?

Do not write in this space

Ans:	. `	* · · · · · · · · · · · · · · · · · · ·	<u> </u>	[3m]

i

11. The table below shows the membership of a reading club in 2010.

Women

Children

Senior Citizens

elow shows the membership of a reading club in 2010.		Do not write in this space
Members	Number	
Men	82	1

(a) Given that 50% of the members were children, how many members were senior citizens?

112

260

- (b) In 2011, the number of senior citizens in the club increased to 186 but the number of children decreased to 218.
 - (i) Was there an overall percentage increase or decrease in the membership of the reading club in 2011?
 - (ii) Find the overall percentage increase or decrease in the membership of the reading club in 2011.

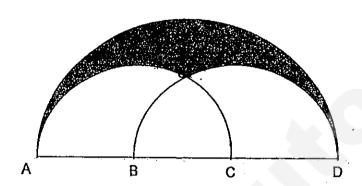
Ans: (a)	[1m]
(b)(i)	[1m]
(b)(ii)	[2m]
10	المسممالكات م

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- 13. A bar of chocolate cost \$0.80. A free bar of chocolate was given for every purchase of 5 bars of chocolate. Diana spent \$60 buying some bars of chocolates. Then, she packed the bars of chocolate into packets of 3 each. She sold each packet for \$4.
 - (a) How many bars of chocolate did Diana get?
 - (b) How much money did she receive after selling all the packets of chocolate?

Ans	: (a)		5.7	12.4	[2m]
٠.	(b)			1.3	_[2m]
	(Go o	n to the	e next i	page)

- 14. The figure is made up of a big semi-circle and 2 identical smaller semi-circles 242. The length of AD is 60 cm. The region BXC has an area of 342 cm² and BXC has a length of 62.8 cm. Given that AB = BC = CD, find
 - (a) the area of the shaded part and
 - (b) the perimeter of the shaded part. (Take π as 3.14)



Ans:	_ (a)	<u> </u>	r January II.	 [3m]

15. An open-air concert ticket for an adult was priced at \$85.50. There were 150 more male adults than female adults for the first night concert. For the second night concert, the number of female adults was decreased by 15% and the number of male adults was increased by 30%. If there were 1 270 adults in the second night concert, how much more money was collected from the sale of the tickets for the second night concert than the first night concert?

Do not write in this space

Ans: [5m

Miss Li and Miss Leo each sold a certain number of cupcakes at their shop. If Miss Li sold 60 cupcakes each day and Miss Leo sold 30 cupcakes each day, Miss Li would have 300 cupcakes left by the time Miss Leo finished selling all her cupcakes. If Miss Li sold 30 cupcakes each day and Miss Leo sold 60 cupcakes each day, Miss Li would have 930 cupcakes left by the time Miss Leo finished selling all her cupcakes. Find the number of cupcakes Miss Li had at her shop.

Do not write in this space

Ans: _____[5m]

17. Sally had a bag which contained only black and white cards. $\frac{4}{5}$ of the cards in the bag were black cards. She removed 35 black cards and 5 white cards from the bag and divided the remaining cards into groups of 7 cards each. In each group, there were 5 black cards. Find the total number of cards in the bag at first.

Do not write in this space

Ans:____[4m]

18. Alex, Bala and Charlie were all standing in a circular track for a race to start. All of them had to run in clockwise direction as shown in the diagram below. Charlie was 300 m ahead of Bala and Bala was 100 m ahead of Alex. At 8.30 a.m, they started the race. Alex overtook Bala in 2 minutes. In another 2 minutes, Alex overtook Charlie. If Bala's speed is 140 m/min, at what time did Bala overtake Charlie?

Do not write in this space

		Alex
Charlie		Bala 100m
	300 m	

	,	
		,
Λ		F 4
Ans:		[4m
	 	1111

End of Paper



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: ROSYTH PRIMARY SCHOOL

LEVEL: PRIMARY 6 SUBJECT: MATHEMATICS

TERM : SA1



Booklet A

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

16.50.73

17.3500

18. 1/3

19. 16

20.21. (g-6)/25

22. 5

23. 18

24. 1/4

25. 90°

26. —

27. 2h

28, 8cm

29. 26

30. 21:8



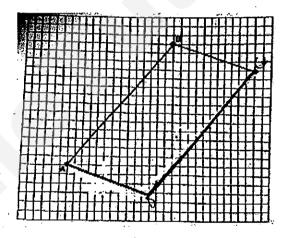
1. 2+5+=7

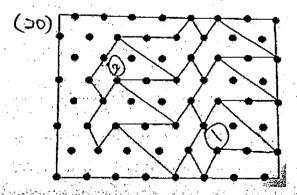
7+7=14

9+4=13

13+13=26

26+14=40





$$3.70+90+100 = 260$$

$$1 - 39/84 - 35/112 = 25/112$$

$$25/112 \div 1/112 = 25$$

7. A. March

$$12x5x15=2700$$

9. A --- After

$$3B + 45 = 5A$$

$$5B + 45 = 8A$$

$$2B = 3A$$

$$1B = 1.5A$$



4.5A + 45 = 5A

$$0.5A = 45$$

$$1A = 90$$

$$1B = 135$$

H = 5x90 + 65 = 515

$$Y = 8x90 = 720$$

B. Increase.

78/520x100% 15%

12. A. 180-31-31=118

B.
$$(180-46) \div 2=67$$

B.
$$90 \div 3 = 30$$

$$30x4=120$$

14. A. 1/2 x3.14x30x30-3.14x20x20+242=399



18. A overtake B in 2 mins of distance 100m

A is 50m/min faster than B

B ---- 140m/min

A ---- 190m/min

A overtake C in another 2 mins

4 mins of distance 400m

A is 100m/min faster than C

C----90m/min

$$8:30am + 6mins = 8.36am$$

SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET A

Name:	()
· · · · · · · · · · · · · · · · · · ·	

Class: Primary 6 SY/C/G/SE/P

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

•		:
	• • •	

15 Questions 20 Marks

Total Time for Booklets A and B: 50 min

<u>INSTRUCTIONS TO CANDIDATES</u>
Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions. You are not allowed to use a calculator

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1 In 9 023.154, the digit 4 is in the pla	
1 11 0 020. 104. 116 010114 10 11 116 1	ace.

- (1) hundreds
- (2) ones
- (3) tenths
- (4) thousandths

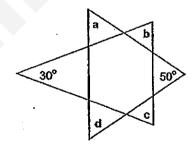
- (1) 30
- (2) 300
- (3) 3
- (4) 3000

3 If
$$\forall + \forall + \forall + \forall = 60$$
 and $\forall + \triangleq 150$, what is the value of \triangleq ?

- (1) 15
- (2) 90
- (3) 135
- (4) 210

- 4 Evaluate $\frac{4}{9} \div \frac{2}{3}$
 - (1) $\frac{4}{9} \times \frac{2}{3}$
 - (2) $\frac{4}{9} \times \frac{3}{2}$
 - (3) $\frac{9}{4} \times \frac{2}{3}$
 - (4) $\frac{9}{4} \times \frac{3}{2}$
- 5 The perimeter of a square is 24 cm. What is its area?
 - (1) 6 cm²
 - (2) 12 cm²
 - (3) 36 cm²
 - (4) 48 cm²
- 6 Which of the following is equal to $\frac{1}{2}$ %?
 - (1) 0.005
 - (2) 0.5
 - (3) 5.0
 - (4) 50.0

- 7 $5 \times \frac{1}{8}$ is the same as _____
 - (1) $\frac{6}{8}$
 - (2) $\frac{51}{8}$
 - (3) $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{8} \times \frac{1}{8} \times \frac{1}{8}$
 - (4) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
- $8 3z + 4 + 4z 3 = \underline{\hspace{1cm}}$
 - (1) 7z 7
 - (2) 7z + 7
 - (3) 7z + 1
 - (4) 7z 1
- 9 The figure below is made up of two triangles. Find the value of \angle a + \angle b + \angle c + \angle d.

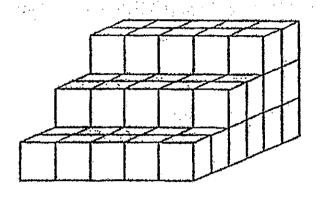


- -(1) 130°
- (2) 150°
- (3) 280°
- (4) 310

- 10 Mr. Tan cycled 10 km in 30 minutes. What was his cycling speed in km/h?
 - (1) 3 km/h
 - (2) 20 km/h
 - (3) 300 km/h
 - (4) 600 km/h
- 11 A string 6.3 m long is cut into two pieces in the ratio 4:1.

 Find the length of the longer piece.
 - (1) 1.2 m
 - (2) 1.26 m
 - (3) 2.3 m
 - (4) 5.04 m
- 12 46 x 76 = 46 x 32 + 46 + 46 x
 - (1) 73
 - (2) 46
 - (3) 44
 - (4) 43
- 13 Which one of the following is smaller than $\frac{1}{3}$ but larger than $\frac{1}{8}$?
 - (1) 0.12
 - (2) 0.25
 - (3) 0.375
 - (4) 0.667

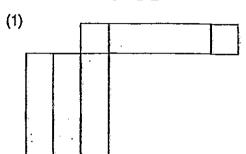
The figure below is made up of cubes of the same size. What is the least number of cubes that must be added to form a cuboid?

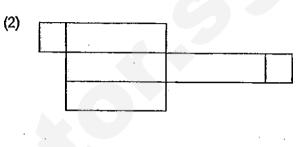


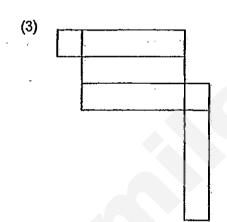
- (1) 10
- (2) 20
- (3) 30
- (4) 40

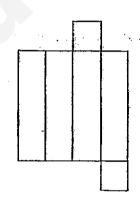


Which of the following is <u>not</u> the net of the solid?









SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET B

Name:				()
_					-
			•		

Class: Primary 6 SY/C/G/

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions 20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

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

Answer all questions.

You are not allowed to use a calculator

300l	kiet B	1		
Name:() Class: P6 SY/C/G/SE/P				
	stions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. questions which require units, give your answers in the units stated. (10 marks)	Coğimn		
16	Write down all the common factors of 6 and 12.			
	Answer:	-		
17	Find the value of $3\frac{1}{4}$ - $1\frac{7}{12}$. (Give your answer in the simplest form.)			
٠, .	and the area of the area of the second of th			
(s ₁ .				
S. .	Answer:			
8	Answer: The number of books in a library is 240 000 when rounded off to the nearest thousand. What is the largest possible number of books in the library?			
8	The number of books in a library is 240 000 when rounded off to the nearest			
8	The number of books in a library is 240 000 when rounded off to the nearest			
18	The number of books in a library is 240 000 when rounded off to the nearest			
8	The number of books in a library is 240 000 when rounded off to the nearest			
118	The number of books in a library is 240 000 when rounded off to the nearest			

PINES

Answer:

20 Mrs Tan's age is $\frac{9}{2}$ of her daughter's age. Find the ratio of her daughter's age to their total age.

Answer:

Susan donated $\frac{3}{10}$ of her salary to charity. She spent $\frac{2}{5}$ of it. What percentage of her salary had she left?

Answer:______%

/3

22 Find the value of — when in –	22	Find the value of $\frac{15m}{5}$ whe	n m = 3
----------------------------------	----	---------------------------------------	---------

Do not write in this column

Answer:	 	

Express 3 litres 5 millilitres in litres. 23

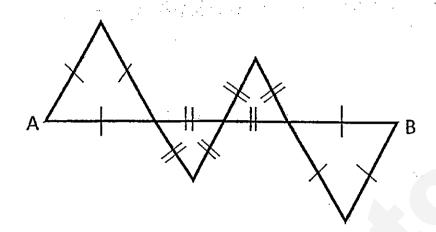
(Express your answer as a decimal.)

litres Answer:

24 The figure is made up of four-equilateral triangles, 2 big and 2 small triangles resting on the line AB.

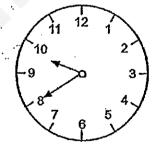
Do not write in this column

Given that the length of AB is 20 cm, find the perimeter of the figure.



<u> </u>	
Answer:	cn
WHOME!	CA.

The clock below shows 9.40 p.m. What time will it show when the minute hand moves through three right angles?

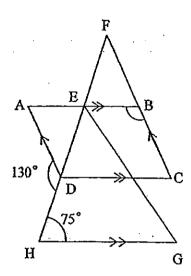


Answer:		pm
---------	--	----

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated.		
. 0. 4	(10 marks)	
26	Clarice is (3y + 2) years old and she is 3 years younger than her brother, Edrick. How old will Edrick be in 17 years' time?	
	Answer:years old	
27	Jaime took 40 minutes to drive from point A to point B at an average speed of 90 km/h. Rachel covered the same distance in 30 minutes. What was Rachel's average speed?	
	Answer:km/h	
28	When 9 is added to $\frac{3}{8}$ of a number, the result is 24. What is the number?	
	Answer:	6

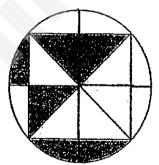
ln the figure below, not drawn to scale, ABCD is a parallelogram. CDF and GHE are triangles. HG is parallel to DC and AB. ∠DHG = 75° and ∠ADH =130°. Find ∠ABC.

Do not write in this column



Ans: a)

30 Find the ratio of the shaded region to the unshaded region.



Ans:_____

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 6

MATHEMATICS

PAPER 2

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Name	•	•	ŀ	,
1400110	•		•	,

Class: Primary 6 SYIG/SE/P

	Mark	Max Mark
Paper 2		60

Parent	's Sig	natu	re	
-	:		•	;

18 Questions 60 Marks

Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully. Answer all questions.
You are allowed to use the calculator

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this column

1 The table below shows the rental charges of bicycles.

RENTAL CHARGES	
For the first hour	\$7.00
For every additional half an hour or part thereof	\$1.00

Jessica rented a bicycle from 12 noon to 6.35 p.m. the same day. How much did she pay for the rental charges?

Ans:	\$ 	

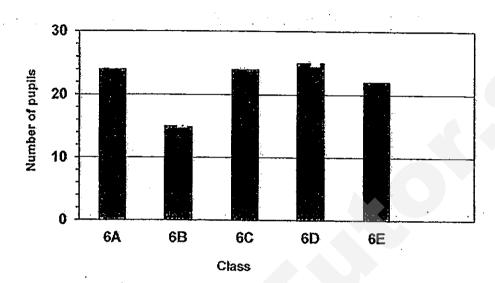
At an electronics fair, a vacuum cleaner was on offer. Mrs Tan paid \$270 for it after a 40% discount. What was the original price of the vacuum cleaner?

Ans: \$_____

/4

The graph below shows the number of pupils who passed a Math test. There were 30 pupils in each of the 5 classes. What percentage of pupils failed the test? (Express your answer as a fraction in its simplest form.)

Do not write in this column



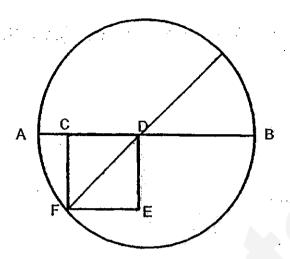
Ans:	%

I am thinking of a fraction. The sum of the numerator and denominator is 19. When I add 8 to the denominator, the fraction becomes $\frac{1}{2}$. What is the fraction I am thinking of?

Ans:_____

The figure below, shows a square CDEF with Point D touching the centre of the circle. Given that Point F touches the circumference of the circle and line CE is 8 cm. Find the diameter of the circle.

Do not write in this column



Ans: _____

. Page | 3.

Questions 6 to 18, show your working clearly in the space below each question and write your answers in the space provided. The number of marks awarded is shown in the brackets [] at the end of the question or part-question.

Do not write in this column

(50 marks)

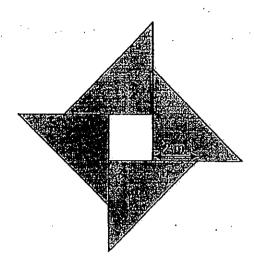
At a conference, $\frac{4}{5}$ of the participants were Singaporeans and the rest were Malaysians. After 20 Singaporeans had left the conference, another 20 Malaysians joined in. Hence the number of Singaporeans became $\frac{8}{15}$ of the total number of participants. How many Singaporeans were there at the start of the conference?

Ans :____[3]

There were 120 participants in a baking competition. $\frac{1}{2}$ of them won either the gold or the silver award. $\frac{3}{4}$ of them received the silver or the commendation award. How many of them received the silver award?

Ans:____[3]

6



A bus can carry 30 adults or 45 children. If the bus has already 20 adults and 10 children aboard, how many more children can the bus carry?

Ans:____[3]

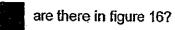
6

10 Christina and Belinda saved \$800 altogether. $\frac{1}{4}$ of Christina's saving was \$65 more than $\frac{1}{5}$ of Belinda's savings. How much more money did Christina save than Belinda?

Do not write in this column

[3]	3
	[3]

11a Look at the pattern below. How many



Do not write In this column



Figure 1 Figure 2

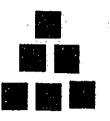


Figure 3



Figure 4

305472930547293054729.....

(b) Look at the pattern above, what will be the 79th digit?

Ans: (a) [2]

(b)_____[2]

/4

There were 1680 animals in John's farm and 20% more animals in Doug's farm. When an equal number of animals was sold by each farmer, the animals left in John's farm became 60% that of Doug.

Do not write in this column

- a) How many animals did Doug have at first?
- b) How many animals did John have in the end?

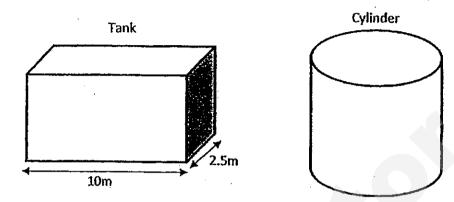
Ans: (a)[1]	
	۱

4

[3]

A rectangular tank measuring 10 m and 2.5 m wide is completely filled with water. When 30% of the water from the rectangular tank is poured into an empty cylindrical container, the container is only 25% full. The capacity of the cylindrical container is 10m³ more than that of the rectangular tank. Find the height of the tank.

Do not write in this column



Ans:_____[4]

Peter bought some items to sell at a carnival. $\frac{3}{5}$ of the items were key chains and the rest were mugs. He spent a total of \$520 on all the items. In total, he spent \$280 more on mugs than on key chains. Given that each mug cost \$8 more than each key chain, what was the cost of each mug?

Do not write in this column

5	Linda had \$85 mo	re than Jessica. Mich	elle had \$36 more th	an the total	Do not write
	amount of what Li Linda, how much I	nda and Jessica had. money did Michelle ha	If Michelle had \$974 ave?	more than	in this column
	· · ·				
	•				
٠			<u>-</u>		
			·		

Ans:____[4]

4

100 people went for a health check at a polyclinic. Their average mass was 65 kg. Given that the average mass of the women was 50 kg and the average mass of men was 70 kg, how many men were there? Do not write 16 in this column

Page | 12

[5]

Ans:_

Michael had 80% as many marbles as Josh at the start of a game. Michael lost 75% of his marbles to Josh during the first game. Josh then lost 25% of his marbles to Michael during the second game. If Michael had 258 marbles at the end of the second game, how many marbles did Josh have at first?

Do not write in this column

Ans :	[5]	11 /
		5

Page | 13

Rachel, Amber and Christine each made some cards for sale at a school carnival.

Do not write In this column

At first, Rachel made 1365 cards more than Amber.

Then Rachel sold 420 cards and made another 175 more.

Christine sold 140 cards and made another 350 more.

Amber made more cards and the number of her cards doubled.

In the end, all three girls had the same number of cards.

Find the number of cards Christine had at first.

Ans:		[5	ļ
****		[5	



ANSWER SHEET

EXAM PAPER 2013

SCHOOL: SCGS

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

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

16)1,2,3,6

17)12/3

18)240499

19)I

20)2:11

21)30%

22)9

23)3.005L

24)60cm

25)10.25pm

26)(3y+22)

27)120km/h

28)40

29)125°

30)3:5

Paper 2

1)12pm to 1pm→\$7

1pm to 6pm \to \$1 x10 = \$10

6pm to 6.30pm→\$1

6.30pm to 6.35pm→\$1

\$7+\$10+\$1+\$1 = \$19

2)Discount >40%

Pay \Rightarrow 100% - 40% = 60%

60[°]% →\$270

 $1\% \rightarrow $270 \div 60 = 4.50

Original price → 100%

 $100\% \rightarrow $4.50 \times 100 = 450

3)262/3

$$5)8 + 8 = 16cm$$

6)
$$4u \rightarrow 20$$

 $1u \rightarrow 20 \div 4 = 5$
 $12u \rightarrow 5 \times 12 = 60$ Singaporeans

7)120÷2 = 60
Gold or silver
$$\rightarrow$$
60
120÷4 x 3 = 90
Silver or commendation \rightarrow 90
60 + 90 = 150
150 - 120 = 30
Silver \rightarrow 30
Gold \rightarrow 60 - 30 = 30
Commendation \rightarrow 90 - 30 = 60

Ans: 30 participants.

Breath x Height
$$\rightarrow$$
36
Breath \rightarrow 36 = 6
Height \rightarrow 36 = 6

1 side of square
$$\rightarrow$$
 6 – 2 = 4m

9)30 adults = 45 children

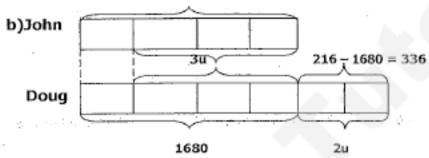
$$\downarrow \div 15$$

2 adults = 3 children
 $\downarrow \times 10$
20 adults = 30 x 10 = 30 children

$$30 + 10 = 40$$

 $45 - 40 = 5$ more children

11)a)136 b)0



$$2u \rightarrow 336$$

 $1u \rightarrow 336 \div 2 = 168$
 $2u \rightarrow 236 \times 5 = 840$ animals
 $3u \rightarrow 236 \times 5 = 840$ animals

14) Amount spent

Key chains	280	520
Mugs	 280	320

$$520 - 280 = 240$$

Spent on key chains \Rightarrow 240 \div 2 = 120 Spent on mugs \Rightarrow 120 + 280 = 400 1u of key chains \Rightarrow 120 \div 3 = 40 1u of mugs \Rightarrow 400 \div 2 = 200 200 - 40 = 160 160 \div 8 = 20 1u \Rightarrow 20 2u \Rightarrow 20 x2 = 40 400 \div 40 = \$10

16)Average→65 Total→65 x 100 = 6500

$$6500 - 6000 = 500$$

 $70 - 50 = 20$
 $500 \div 20 = 25$
 $Men \rightarrow 25 + 50 = 75$
 $Women \rightarrow 50 - 25 = 25$
Ans: 75 men

17)3u
$$\rightarrow$$
258
1u \rightarrow 258 \div 3 = 86
5u \rightarrow 86 x 5 = 430 marbles

18)1365
$$-$$
 420 $+$ 175 $=$ 1120
1u Amber \rightarrow 1120
2u Amber \rightarrow 1120 x 2 $=$ 2240
Amber in the end \rightarrow 2240
2240 $-$ 350 $+$ 140 $=$ 2030

Number

Key chains		
Mugs	<u>-</u>	

Page 4



PRIMARY 6 MID-YEAR EXAMINATION 2013

Name:		()	Date: <u>17 May 2013</u>
Class: Primary 6 ()			Time: 8.00 a.m 8.50 a.m.
Parent's Signature :				Marks:/ 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1 (BOOKLET A)

INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

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.

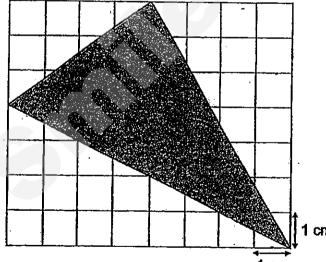
(20 marks)

1)	In 15	5.379, the digit 7 is in theplace.
	(1)	thousandths
	(2)	hundredths
	(3)	tenths
	(4)	tens
2)	Wha	t is the value of the digit 3 in 6 130 058?
	(1)	30
	(2)	300
	(3)	3
	(4)	30 000
.*		
3)	How	many ninths are there in $3\frac{1}{3}$?
	(1)	7
	(2)	10
	(3)	21
	(4)	30
4)	What	percentage of \$10 is 20¢?
	(1)	20%
	(2)	2%
	(3)	200%
	(4)	500%
5)	Als s	times of B. B is thrice of C. What is the ratio of C to A?
	(1)	1:15

15:1 1:5 5:1

- 6) Express 0.6% as a fraction in its simplest form.
 - $\frac{3}{5}$ (1)
 - (2)
 - (3)
 - (4)500
- Express $2\frac{1}{6}$ hours in minutes. 7)
 - 106 min (1)
 - 110 min
 - 126 min
 - 130 min
- The sum of $\frac{1}{4}$ and $\frac{1}{5}$ 8)
 - (1)0.45
 - 0.25
 - (2) (3) (4) 0.20
 - 0.09
- 9) At 10 a.m., Ming Le left Town A and cycled towards Town B at 15 km/h. He reached Town B at 1 p.m. Find the distance between Town A and Town B.
 - 15 km
 - 30 km (2)
 - (3)45 km
 - 60 km
- 10) The number of people who went to a book fair was 60 000 when rounded off to the nearest hundred. Which of the following is the best estimate of the number of people?
 - 60 055
 - 60 051
 - 59 951
 - 59 949

- The diameter of a circle is 14 cm. Find its circumference. (Take $\pi = \frac{22}{7}$)
 - 44 cm
 - 88 cm
 - 154 cm
 - 616 cm
- 12) The total surface area of a cube is 96 cm². Find its volume.
 - 256 cm³ 64 cm³ 16 cm³ 4 cm³ (1)
 - (2) (3)
- Ramad had \$200. He spent half of it on a gift and 15% of the remainder to buy 13) a book. How much did Ramad have in the end?
 - \$70
 - \$85
 - \$115
 - \$130
- 14) Find the area of the shaded triangle below.



- 12 cm² 16 cm²
- 20 cm²
- 28 cm²

- Mr Gopal uses 12 seconds to cut a log cake into 4 equal parts. How long will he take if he cuts the cake into 8 equal parts? 15)

 - (1) (2) (3) (4) 21 s 24 s

 - 28 s 32 s

- End of Booklet A -



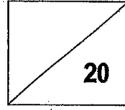
PRIMARY 6 MID-YEAR EXAMINATION 2013

Name :		_()	Date: 17 May 2013
Class: Primary 6 ()			Time: 8.00 a.m 8.50 a.m.
Parent's Signature :		_		

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1 (BOOKLET B)



INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. You are not allowed to use a calculator.

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) Arrange the following numbers in ascending order.

1.019

10.109

10.19

10.1

Ans:_____

17) 12:18=___:30

Ans:_____

18)



End



The above shows the time Ben spent doing his homework. How many right angles did the minute hand of the clock travel?

Ans:

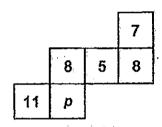
	•	100 - 100 -		
19)	Express 5.04 as a mixed	number in its si	implest form.	
	·	. <i>:</i>	· <u>,</u>	
	•			
			Ans:	
20)	What is the quotient whe	n 8018 is divide	d by 9?	
·	·			
	• • • • • • • • • • • • • • • • • • •		Ans:	
21)	Dahlia ran 2 times around How long did she take if e	d the school fiek each round was	d at an average speed of 200 m/n 0.4 km?	nin.
			•	
		·		
			Ans:	min

22) $\frac{1}{2}$ of a number is 6. What is $\frac{5}{6}$ of the number?

23)	Shawn is the 20th pupil from the top and bottom of the class list. How many
	pupils are there in his class?

Ans:		٩	

24) The figure below shows the net of a cube with 6 different numbers printed on each of its faces. The sum of the numbers on opposite faces is 16. Find the value of p.



Ans:

25) $\frac{4}{5}$ of Mr Lee's mass is equal to $\frac{7}{8}$ of Mr Tan's mass. What is the ratio of Mr Lee's mass to Mr Tan's mass?

Ans:

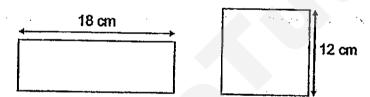
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26) Find the sum of the following algebraic expressions when n = 8.

n+2, 2n+4, 3n+6

Ans:	
A 45100-	

27) The diagrams below are not drawn to scale. Both the rectangle and square have the same area. The length of one side of the square is 12 cm. What is the breadth of the rectangle?

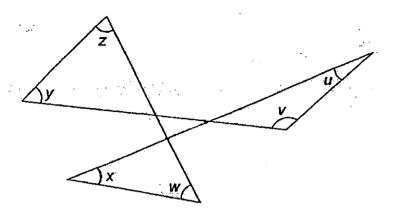


á	
Ans:	 cm

The ratio of Ali's age to Lily's age is 10 : 9. Last year, their average age was 18 years old. How old is Lily now?

Ans: _____years old

29) The figure below is not drawn to scale. Find the sum of $\angle u$, $\angle v$, $\angle w$, $\angle x$, $\angle y$ and $\angle z$.



Ans:_____

30) Study the pattern. What is the missing number?

$$4 \times 4 - 3 \times 3 = 7$$

$$21 \times 21 - 20 \times 20 = 41$$

$$43 \times 43 - 42 \times 42 = 85$$

Ans:_____

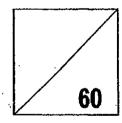
- END OF PAPER 1 -



PRIMARY 6 MID-YEAR EXAMINATION 2013

Name :		()	Date: 17 May 2013
Class: Primary 6 (}			Time: 10.00 a.m 11.40 a.m.
Parent's Signature : _		1 4)		

MATHEMATICS PAPER 2

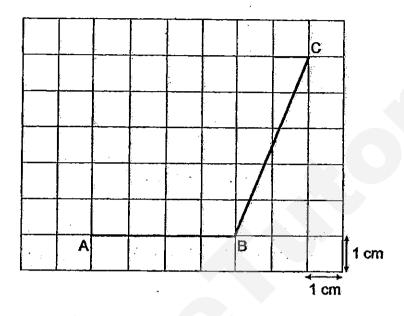


INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

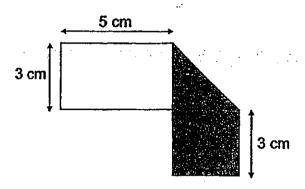
1) AB and BC are sides of a parallelogram. Complete the parallelogram, ABCD.



David and Peter shared a sum of money. If David's share of money increased from \$6789 to \$6924, Peter's share of money decreased by 15%. Find the amount of money Peter received at first.

Ans: \$_____

3) In the diagram (not drawn to scale) below, a rectangular piece of paper is folded to form the shape shown below. Find the area of the rectangular piece of paper before it was folded.



_	•
Ans:	cm ²

There are some apples, oranges and pears in a box. $\frac{2}{3}$ of the fruits are apples. The ratio of the number of oranges to the number of pears is 2:1. If there are 8 more apples than oranges, find the number of pears in the box.

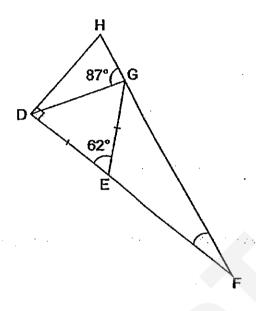
Ans:

5)	A pencil cost 50¢. Y note. How much char	iling bought b pencils a nge did she receive?	nd gave the cashier a five-dollar
	÷		
	w. 1940.		
	to the second second		Ans: \$

For questions 6 to 18, 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)

6) In the figure below, not drawn to scale, DFH is a right-angled triangle. Find ∠EFG.

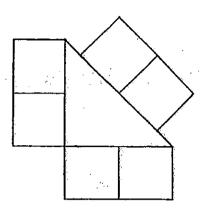


Ans:_____ [3m]

7) On Day 1, John read $\frac{2}{5}$ of a book. The next day, he read $\frac{7}{9}$ of the remaining pages. On Day 3, he finished reading the last 70 pages. How many pages were there in the book?

Ans:_____[3m]

8) The figure below, not drawn to scale, comprises of 1 right-angled triangle and 6 identical squares. The total area of the squares is 150 cm². Find the area of the triangle.



Ans:	[3m]
M19.	 โลกป

9) $\frac{3}{5}$ of the children in Group A are girls. $\frac{3}{4}$ of the children in Group B are boys. There are 21 more girls in Group A than in Group B and an equal number of boys in both groups. How many children are there altogether?

Ans:	[3m]
•	

10) The table below shows part of Devi's results of her class tests.

Subject	Marks Obtained
English	
Mathematics	
Chinese	90
Science	95

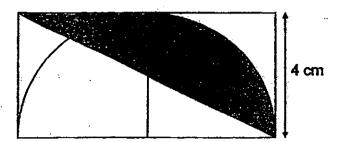
The maximum mark for each test is 100. Devi obtained an average of 93:25 marks for her tests. If she scored 10 less marks for her English test than Mathematics test, find her Mathematics mark.

Ans:_	•	[3m]

11) Faizal took part in a 42-km triathlon. He completed the race by swimming
 1 km, cycling for 1 hours and running 5 km. Find Faizal's cycling speed.

Ans:_		[3m]
-------	--	------

12) The figure below, not drawn to scale, comprises a semi-circle and 2 squares. What is the area of the shaded region? Leave your answer in terms of π .



Ans.		 <u>[4</u> m]

	low much did Mr Koh have before he entered the first	, -,
.*		
	Ans:	[4m]

14)

$$A: (B+C)=1:2$$

$$C: (B + D) = 1:3$$

Based on the above ratios, find the ratio of A:B:C:D.

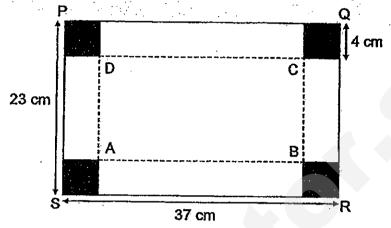
Ans:	,	[4m]

In the diagram below, not drawn to scale, PQRS is a rectangular piece of cardboard. 4 shaded squares are cut off and the remaining piece is folded along the dotted line to make an open box with rectangular base ABCD.

(a) What is the length of AB?

(b) What is the volume of the open box?

(c) Find the maximum number of 2-cm cubes that can be put into the box.



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

Balloons were used to decorate 8 big rooms and 3 small rooms. All big rooms had the same number of balloons and each small room was decorated with an equal number of balloons. 3/17 of the balloons were used to decorate the small rooms. If each big room had 15 more balloons than each small room, find the total number of balloons used.

Ans:	[5m]
------	------

May spent a total of \$69 on some rulers, pens and erasers. 25% of them were rulers and cost 90ϕ each. The number of pens was 6 more than half the total number of items and the remaining were erasers. If a pen cost \$2.20 and an eraser cost 70ϕ , find the total number of pens May bought. 17) _[5m]

- At first, 25% of Charles' money was the same as $\frac{1}{3}$ of June's money. Then, 18) June's father gave her \$80 while Charles spent \$150. In the end, June had $2\frac{1}{2}$ times as much money as Charles.

 - How much money did Charles have at first? How much money did June have in the end? (a) (b)

ıs: (a)	į2mj
(b)	[3m]

- END OF PAPER 2 -



answer sheet



EXAM PAPER 2013

SCHOOL: TAO NAN PRIMARY SCHOOL

LEVEL: PRIMARY 6
SUBJECT: MATHEMATICS

TERM : SA1

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
2	4	4	2	1	4	4	1	3	3	1	2	2	3	3	-

16. 1.019 , 10.1, 10.109, 10.19

17. 20

18. 5

19.

5 =

20.890

21. 4min

22. 10

23.39

24. 9

25. 35: 32

26, 60

27.8cm

28. 18

29.360

30, 209



Paper 2

1.

$$4.2x3 = 6$$

$$6u-2u = 4u$$

$$5.5 - 0.5b$$

$$105x5=525$$

$$\sqrt{25} = 5$$

$$5x2=10$$

9.
$$3u-1p+21$$

$$1u - 1.5p$$

$$4.5p - 1p = 3.5p$$



11.
$$5+1=6$$

12.
$$4x4xpie = 16pie$$

$$4x8 = 32$$

16pie
$$\div 4 = 4pie$$

$$32 \div 2 = 16$$

$$4x4 = 16$$

$$16-(16-4pie) = 4pie$$

13. 20+10=30

$$30 = \text{half of money at } 2^{\text{rd}} \text{ stall}$$

$$60 = amount of money at 2nd stall$$

$$$70 = \text{half of } 1^{\text{st}} \text{ stall}$$

$$140 = 1^{st}$$
 stall

$$14.21u - 12u = 9u$$

$$16-9u = 7u$$

$$7u - C$$



c.
$$29 \div 2 = 14R1$$

$$14x7x2=196$$

$$14/17 \div 8 = 7/68$$

$$1/17 = 4/68$$

$$68x5 = 340$$

17.
$$2.20x6 = 13.20$$

$$69-13.20 = 55.80$$

$$0.7x6=4.2$$

$$55.80 + 4.2 = 60$$

$$0.9+2.2+2.2+0.7=6$$

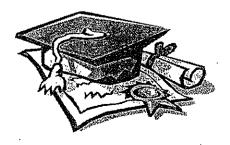
$$10x2 = 20$$

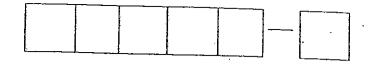
18. a.
$$4x2.5=10$$

$$10u - 375 = 3u + 80$$

$$1u - 65$$

$$4u - 260$$





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



COMBINED PRELIMINARY EXAMINATION (2013) PRIMARY 6

MATHEMATICS

PAPER 1
Booklet A

Friday

23 AUGUST 2013

50 min

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. You are not allowed to use a calculator.

Name :	()
Class : 6.()		
Parent's Signature:		

This question paper consists of 8 printed pages. (Inclusive of cover page)

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 392 458 rounded off to the nearest hundred?
 - 1) 392 000
 - 2) 392 400
 - 3) 392 460
 - . 4) 392 500
- 2. Which of these has the smallest value?
 - 1) $\frac{1}{5}$
 - 2) $\frac{2}{7}$
 - 3) 0.5
 - 4) 0.27
- 3. Which one of the following pairs of numbers has common factors 1, 3 and 9 only?
 - 1) 9 and 24
 - 2) 12 and 18
 - 3) 12 and 24
 - 4) 18 and 27

- 4. The average mass of 3 boys weighing 34 kg, 35 kg and x kg is 33 kg. What is the value of x?
 - 1) 27
 - 2) 30
 - 3) 36
 - 4) 34
- 5. Mrs Loh bought 9k pens. She gave 2 pens to each of her pupils and had 4k pens left. Express the number of pupils Mrs Loh had in terms of k.
 - $\frac{5k}{2}$
 - 2) <u>13k</u>
 - 3) $\frac{9k-2}{4k}$
 - 4) $\frac{9k+2}{4k}$
- 6. 341.059 = 300 + 40 + + 0.05

The missing value in the box is _____

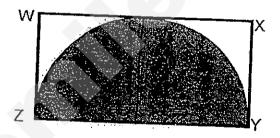
- 1) 0.09
- 2) 0.009
- 3) 1.009
- 4) 1.059

- 7. Derrick left for his tennis training and his watch showed 9.35 a.m. He took 35 minutes to travel to his tennis training venue. He then realised that his watch was 10 minutes slow. What was the actual time he reached the training venue?
 - 1) 9.50 a.m.
 - 2) 10.10 a.m.
 - 3) 10.20 a.m.
 - 4) 10.30 a.m.
- 8. The table below shows the age of 4 boys. Whose age is the nearest to their average age?

Age in Years
11
12
13
15

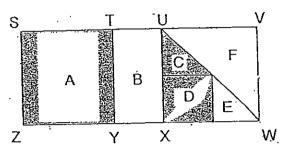
- 1) Alvin
- 2) Bobby
- 3) Calvin
- 4) Danny

- 9. The ratio of the number of marbles Frederick has to the number of marbles Gregory has is 5 : 8. If Frederick has 90 marbles, how many marbles must Gregory give to Frederick so that they both have the same number of marbles?
 - 1) 18
 - 2) 27
 - 3) 90
 - 4) 144
- 10. The area of rectangle WXYZ is 98 cm². Find the radius of the semi-circle. (Take $\pi = \frac{22}{7}$)



- 1) 7 cm
- 2) 14 cm
- 3) 22 cm
- 4) 44 cm

11. The figure below is made up of 2 identical squares STYZ and UVWX and a rectangle TUXY. Area A is twice the Area of B and Area D is half of Area F. What fraction of the figure is shaded?

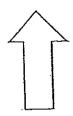


- 1) <u>3</u> 5
- 2) <u>3.</u>
- 3) $\frac{9}{20}$
- 4) $\frac{11}{20}$
- 12. Which one of the following figures has more than one line of symmetry?

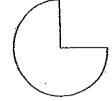
1)



3)



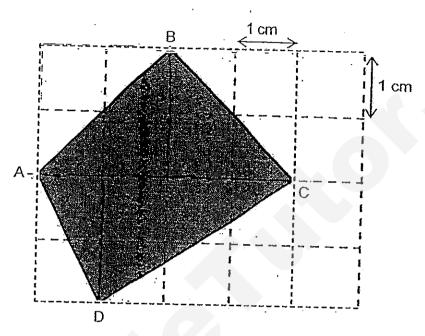
2)



4)

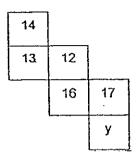


13. Quadrilateral ABCD is drawn on a 1-cm square grid. Find the area of ABCD.

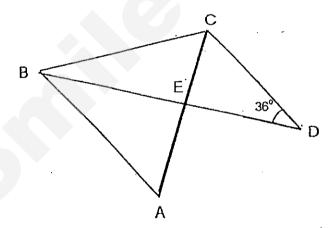


- 1) 6 cm²
- 2) 8 cm²
- 3) 12 cm²
- 4) 20 cm²

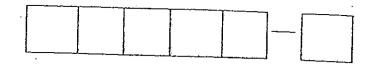
The figure below shows the net of a cube. The average of each pair of numbers on opposite faces is the same. What is the missing number represented by the face marked 'y'?



- 1) 11
- 2) 15
- 3). 18
- 4) 19
- 15. In the figure below, ABC is an equilateral triangle and CD and BD are straight lines. CD is parallel to AB. ∠CDEis 36°. Find∠DEA.



- 1) 36°
- 2) .84°
- 3) 96°
- 4) 144°



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



COMBINED PRELIMINARY EXAMINATION (2013) PRIMARY 6

MATHEMATICS

PAPER 1
Booklet B

Friday

23 AUGUST 2013

50 min

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. You are not allowed to use a calculator.

Name :()	Booklet	Possible Marks	Marks Obtained
Class: 6.()		À	20	
Parent's Signature:		В	20	
		TOTAL	40	

This question paper consists of 8 printed pages. (Inclusive of cover page)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

16. Express $2\frac{3}{7}$ as a decimal. (Round off your answer to 2 decimal places.)

Answer:

17.
$$8 \times 1\frac{1}{6} = 1\frac{1}{6} + 1\frac{1}{6} + 2\frac{1}{3} +$$

What is the missing value in the box?

Answer:

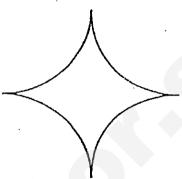
18. What is the quotient when 2397 is divided by 23?

Answer:

19.	Sheena is y years old. Mary is three times as old as Sheena and Mary is
	4 years younger than Peiqi. What is Peiqi's age in terms of y?
· ns	
	Answer:
20.	1 kg of tomatoes costs \$2.40. 6 kg of such tomatoes cost as much as 800g of cherries. How much does 100 g of cherries cost?
	Answer: \$
21.	Helen had a roll of ribbon 3 m 4 cm long. She cut off 18.7 cm of the ribbon to tie a parcel. What was the length of the remaining ribbon? Leave your answer in centimetres.
	•
	Answer:cm

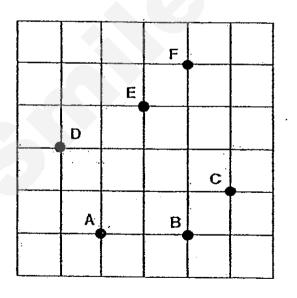
22. A circular hoopla hoop of radius 10 cm is cut into 4 equal pieces and rearranged to make the shape as shown. What is the perimeter of the shape?

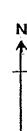
(Take $\pi = 3.14$.)



Answer:	cm

23.

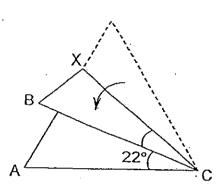




Refer to the square grid above and fill in the blanks with A, B, C, D, E or F.

Point _____ is south-east of point _____

24. The figure below shows an equilateral triangular piece of paper folded along line CX. ∠ACB is 22° Find ∠BCX.



Answer:

Add one square to Figure Q so that the new Figure Q has the same area and 25. perimeter as Figure P. Shade the square drawn.

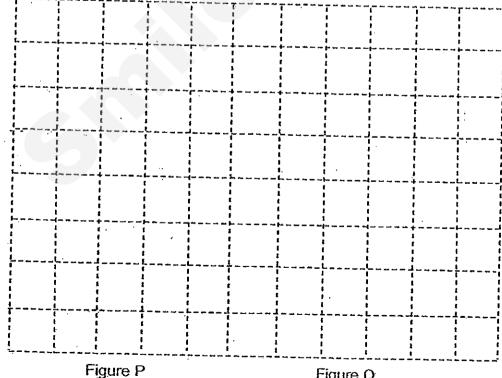


Figure Q

Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated. (10 marks)

26. Kelvin bought 8 identical erasers and 5 identical files. Each eraser cost \$p. Each file cost \$1.30 more than an eraser. How much did he pay altogether?

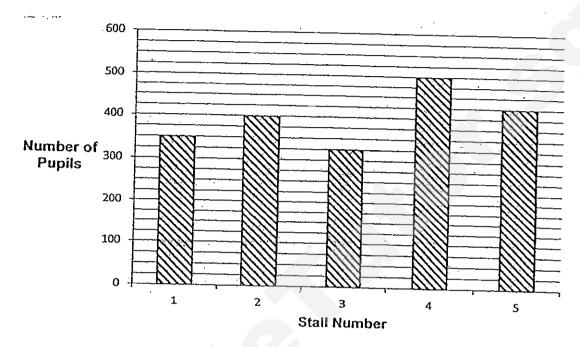
Give your answer in terms of p.

Answer: \$____

27. What is the greatest number of $\frac{1}{4}$ - m pieces of ribbon Jenny can cut from $\frac{9}{10}$ m of ribbon?

Answer:

28. The graph below shows the number of pupils who shopped at the 5 stalls in a certain school on Friday. Study the graph carefully and answer the questions.



a) How many more pupils preferred stall 5 to stall 3?

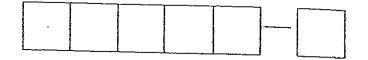
Answer.____

b) What was the percentage of the pupils who shopped at stall 4?

Answer: _____ %

29.	The bill for a meal in a restaurant was \$53.50, inclusive of 7% Goods and Services Tax (GST). Find the price of the meal before GST.
·	
· . :	
	Answer: \$
30.	Mavis wants to buy 9 bars of chocolate but she is short of \$2.50. If she
	buys 2 bars of chocolate, she will have \$5.20 left. How much does each
	bar of chocolate cost?
٠	
	Answer: \$

End of Paper 1



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



COMBINED PRELIMINARY EXAMINATION (2013) PRIMARY 6

MATHEMATICS

PAPER 2

Friday

23 AUGUST 2013.

1hr 40 min

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Show all your workings as marks are awarded for correct working.
- 5. Write your answers in this booklet.
- 6. You are allowed to use a calculator.

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Class : 6.()	,
Parent's Sig	nature:	·

Paper	Possible Marks	Marks Obtained
1	40	
2	60	
TOTAL	100	, , ,

This question paper consists of 15 printed pages. (Inclusive of cover page)

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers to the units stated. (10 marks)

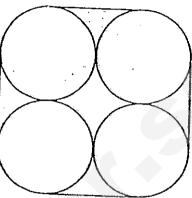
A rectangular tank measures 30 cm by 25 cm by 8 cm. Water from a tap flows into the rectangular tank at a rate of 180 cm³ per minute.
 How long does it take to fill ³/₄ of the tank?

Answer: _____ mir

2. Ethan scored an average of 75 marks for Mathematics and Science. He scored an average of 86 marks for Mathematics and English. How many more marks did he score in English than in Science?

Answer:

3. A rubber band is used to secure the position of four identical circular discs. The diameter of each circular disc is 10 cm. Use the calculator value of π to find the length of the rubber band, correct to 2 decimal places.

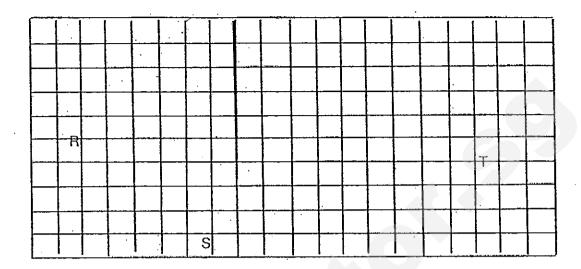


Answer:	
HISWCI.	cm

4. A group of people went on a trip to Malaysia. $\frac{1}{3}$ of the males and $\frac{1}{4}$ of the females were children. There were 32 children altogether and $\frac{3}{8}$ of them were girls. What fraction of the people were children? (Give your answer in its simplest form.)

Answer:	
111244 CT	

5. RS and ST are two sides of a parallelogram. Complete and label the parallelogram RSTU by drawing the other two sides in the square grid below.



For questions 6 to 18, show your working clearly 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)

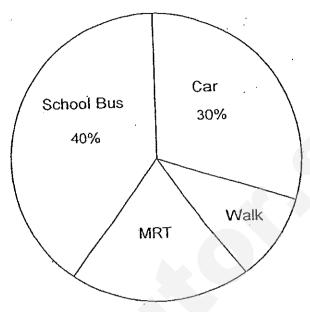
6. A box with 68 identical mugs weighs 18 kg. The same box when filled with 56 identical mugs weighs 15.03 kg. What is the mass of the empty box in kilogrammes? (Round off your answer to the nearest 1 decimal place)

Answer:	 [3]
	 _(~)

7. A sum of money was shared among Andy, Bobby and Carl such that Andy received $\frac{1}{4}$ of the sum and the remainder was shared between Bobby and Carl in the ratio 3:2. Find the ratio of the amount of money Andy had to the amount of money Bobby had to the amount of money Carl had.

Answer: _____[3]

 The pie chart below shows how pupils of ABC school travel to school daily. Study the pie chart below carefully and answer the questions.



- a) If 810 pupils go to school by car, what is the enrolment of ABC school?
- b) If the number of pupils who travel to school by MRT is twice those who walk to school, how many pupils walk to school?
- c) What fraction of the pupils in ABC school go to school by MRT?

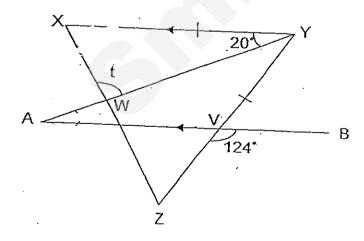
Answer: (a) _____[1]
(b) _____[1]
(c) _____[1]

9. Mrs Lim sold her curry puffs at \$1.40 each in the afternoon. At night, she still had 63 curry puffs left. She decided to reduce the cost of each curry puff by fifty cents. She managed to sell all the remaining curry puffs before she closed her shop. She collected a total of \$409.50. How many curry puffs did she sell in the afternoon?

Answer:	{3	1
	<u> </u>	ш

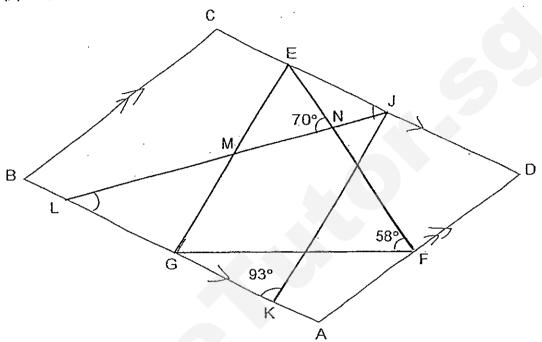
In the figure below, XYZ is an isosceles triangle. XY = YZ and AB // XY

AWY and AVB are straight lines. Find ∠t.



Answer	 [3]	I
	 U	ı

- 11. The figure below is not drawn to scale. ABCD is a parallelogram. EFG and JKL are triangles. EG is parallel to JK and EF = FG. ∠JKG = 93°, ∠ENL = 70° and ∠EFG = 58°
 - (a) Find ∠EJK.
 - (b) Find ∠JLK.



Answer:	(a)	[1	[]
	•		

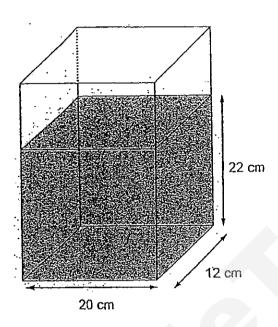
- 12. Aminah and Benjamin were travelling on the same route to Town X. Benjamin overtook Aminah when they were 168 km from Town X. When Benjamin reached Town X, Aminah was still 21 km away from Town X. 20 minutes later, Aminah reached Town X.
 - (a) What was the average speed of Aminah?
 - (b) What was the average speed of Benjamin?

Answer (a)		[1]
(h)	1	נט:

- 13. Tank A and Tank B are regular containers. Tank A was filled with water to a height of 22 cm.
 - a) What was the volume of water in Tank A at first?

the water in

b) The water in Tank A was poured into Tank B such that the height of Tank A was 3 times the height of Tank B. Find the volume of water poured out of Tank B the water in



10 cm

Tank A

Tank B

Answer:	(a)_	 [1]
	(h)	[3]

14. The chairs in a school auditorium were previously arranged in rows such that there were exactly 15 chairs in each row for a concert. After the concert, the school attendants removed 6 chairs from the auditorium and rearranged the remaining chairs for a briefing. There are now exactly 12 chairs in each row and 9 more rows than before. How many chairs were there in the auditorium for the briefing?

Answer:	[4]
· · · · · · · · · · · · · · · · · · ·	1771

15. Lydia made some tarts to sell. $\frac{4}{5}$ of them were mango tarts and the rest were kiwi tarts. After selling 125 kiwi tarts and $\frac{5}{8}$ of the mango tarts, she had $\frac{1}{3}$ of the tarts left. How many tarts did she sell?

Answer	 [4]

- 16. Mr Wang had thrice as many ten-dollar notes as five-dollar notes at first. He used twice as many five-dollar notes as ten-dollar notes to pay for a mobile phone which cost \$280. Then he realised that the number of five-dollar notes left was $\frac{1}{5}$ of the number of ten-dollar notes left.
 - (a) How many pieces of five-dollar notes did Mr Wang have at first?
 - (b) How much money had he left after buying the mobile phone?

Answer. (a)[3	3]
Answer. (a)[3	3]

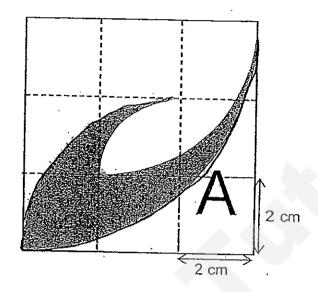
17. Jeremy had a total of 60 figurines of Smurf, Lego and Ironman. The ratio of the number of Smurf figurines to Lego figurines to Ironman figurines was 2:7:3. He bought another 36 figurines. As a result, the number of Smurf figurines was increased by 50% and the number of Lego figurines was increased by 20%. Find the percentage increase in the number of Ironman figurines.



18 The figure below is created with 4 quarter circles and a square.

(a) The unshaded part marked A is enclosed by the square and a quarter circle. Find the area of A.

(b) Find the area of the shaded figure. (Take $\pi = 3.14$)



Answer:	A:	[1]
	B:	r4 `

End of Paper 2

Anglo-Chinese School

Combined Preliminary Examination 2013

Primary Six Mathematics Booklet A

1)	4	4)	2 :	7)	3	10)	1	13)	2
2)	1	5)	11	8)	3	11)	4	14)	3
. 3)	4	6)	3 +	9)	2	12)	4	15)	3

- 16) 2.43
- 17) 43/3
- 18) 104
- 19) (3y + 4)
- 20) 1.80

- 21) 285.3
- 22) 62.8
- 23) C, E
- 24) 19
- 25)

Figure Q

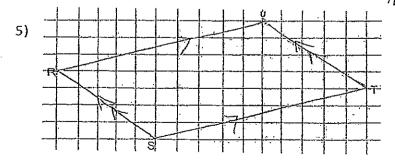
- 26) 8+5=13 $13 \times 5p = $13p$ $$1.30 \times 5 = 6.50 \$13p + \$6.50 = \$(13p + 6.50)
- 27) $\frac{1}{4}$ m = 25cm $\frac{9}{10}$ m = 90cm $\frac{3}{25}$ 90cm $\frac{3}{25}$ $\frac{3}{25}$
- 28a) 425 325 = **100**
- 28b) 350 + 400 + 325 + 500 + 425 = 2000
 - 500 ÷ 2000 = 25%

- 29) \$53.50 ÷ 1.07 = \$<u>50</u>
- 30) \$5.20 + \$2.50 = 9c 2c
 - 7c = \$7.70
 - 1c = **\$1.10**

Booklet B

1) $30 \times 25 \times 8 \times \frac{3}{4} = 4500 \text{cm}^3$ $4500 \text{cm}^3 \div 180 \text{cm}^3 = 25$

- 2) $75 \times 2 = 150$ $86 \times 2 = 172$ 172 - 150 = 22
- 3) $20 \text{cm} \times \pi = 20\pi \text{ cm}$ $20\pi \text{ cm} + 80 \text{cm} = (20\pi + 80) \text{ cm}$ $(20\pi + 80) \text{cm} \div 2 = (10\pi + 40) \text{cm}$ $(10\pi + 40) \text{ cm} \approx 71.42$
- 4) $32 \times \frac{3}{8} = 12$ 32 - 12 = 20 $20 \times 3 = 60$ $12 \times 4 = 48$ 48 + 60 = 108 $\frac{32}{108} = \frac{8}{27}$



8)
$$810 \div 30 = 27$$

b)
$$810 \div 3 = 270$$

c) Walk = MRT (20%)
$$\div$$
 2 = 10%
10% = $\frac{1}{12}$

10)
$$\angle AYZ = 180^{\circ} - 20^{\circ} - 124^{\circ} = 36^{\circ}$$

 $\angle YXZ + \angle XYZ = 180^{\circ} - 20^{\circ} - 36^{\circ} = 124^{\circ}$
 $\angle YXZ = 124^{\circ} \div 2 = 62^{\circ}$
 $\angle t = 180^{\circ} - 62^{\circ} - 20^{\circ} = 98^{\circ}$

12)
$$21km \div 20min = 1.05km$$

- a) 1.05km x 60mins = <u>63km/h</u> 168km ÷ 63km/h = 2hr 40mins 2hr 40mins - 20mins = 2hr 20mins
- b) $168 \text{km} \div 2 \text{hr } 20 \text{mins} = \frac{72 \text{km/h}}{168 \text{km}}$

14)
$$15 - 12 = 3$$

 $12 \times 9 = 108$
 $108 + 6 = 114$
 $114 \div 3 = 38$
 $38 \times 15 = 570$
 $570 - 6 = \underline{564}$

Ratio =
$$5:9:6$$

11)
$$\angle EJK + \angle JKG = 360^{\circ} - 180^{\circ} = 180^{\circ}$$

a)
$$\angle EJK = 180^{\circ} - 93^{\circ} = 87^{\circ}$$

 $\angle EMN = 180^{\circ} - 61^{\circ} - 70^{\circ} = 49^{\circ}$
 $180^{\circ} - 58^{\circ} = 122^{\circ}$
 $122^{\circ} \div 2 = 61^{\circ}$
 $\angle FGA = 180^{\circ} - 93^{\circ} - 61^{\circ} = 26^{\circ}$
 $\angle MGL = 182743$

b)
$$\angle JLK = 180^{\circ} - 49^{\circ} - 93^{\circ} = 38^{\circ}$$

13a)
$$22 \text{cm} \times 12 \text{cm} \times 20 \text{cm} = \frac{5280 \text{cm}^3}{20 \text{cm} \times 12 \text{cm} \times 3 \text{cm} = 720 \text{cm}^3}$$

 $16 \text{cm} \times 10 \text{cm} \times 1 \text{cm} = 160 \text{cm}^3$
 $720 \text{cm}^2 + 160 \text{cm}^3 = 880 \text{cm}^3$
 $5280 \text{cm}^3 \div 880 \text{cm}^3 = 6$

b)
$$6 \times 160 \text{cm}^3 = 960 \text{cm}^3$$

15)
$$\% \times \% = \frac{1}{2}$$

 $1 - \frac{1}{3} = \frac{1}{3}$
 $\frac{1}{3} - \frac{1}{2} = \frac{1}{2}$
 $125 \times 6 = 750$
 $125 \times \frac{1}{3} = \frac{1}{2}$

\$2205 - \$280 = \$1925

b)

b)

17)
$$2+7+3=12$$

 $60 \div 12=5$
 $5 \times 2=10$
 $10 \times \frac{1}{2}=5$
 $7 \times 5=35$
 $35 \times \frac{1}{2} \times 7$
 $5+7=12$
 $36-12=24$
 $3 \times 5=15$
 $\frac{24}{15} \times 100=\underline{160\%}$

 $5.12 \text{cm}^2 + 4 \text{cm}^2 = 9.12 \text{cm}^2$

 $12.82 \text{cm}^2 - 3.14 \text{cm}^2 - 8.56 \text{cm}^2 = 5.12 \text{cm}^2$



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 EXAMINATIONS
TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA

2013 数学 MATHEMATICS PAPER 1 BOOKLET A

Date: 23 August 2013

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

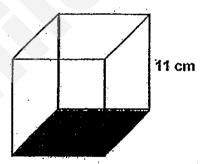
- $\sqrt{}$ Do not open this booklet until you are told to do so.
- √ Follow all instructions carefully.
- √ Answer all questions.
- √ Shade your answers in the Optical Answer Sheet (OAS) provided
- √ You are not allowed to use a calculator.

This booklet consists of 7 printed pages.

School	•	
Name	•	, -
Class		

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). (20 marks)

- 1. 12 is a multiple of _____
 - (1) 6
 - (2) 8
 - (3) 9
 - (4) 24
- 2. Subtract 0.26 from 18 tenths.
 - (1) 0.08
 - (2) 0.8
 - (3) 1.54
 - (4) 1.774
- 3. The figure below shows a cubical box with a height of 11 cm. What is the base area of the box?

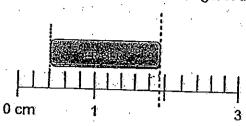


(1) 22 cm^2

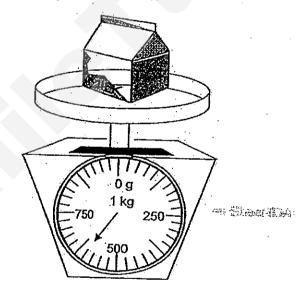
- (2) 33 cm²
- (3) 121 cm²
- (4) 1331 cm²

SHHK_Prelims 2013_P6 MA_Paper 1_Booklet A

4. What is the best estimate for the length of the eraser?

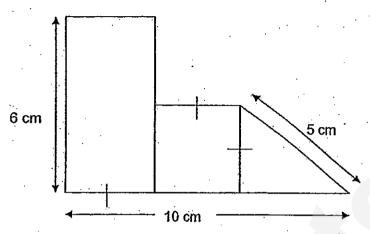


- (1) 1.2 cm
- (2) 1.5 cm
- (3) 1.9 cm
- (4) 2.0 cm
- 5. The figure below shows a packet of milk on the weighing scale. What is the mass of 2 such packets of milk?

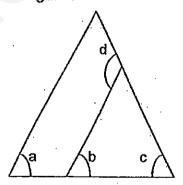


- (1) 1080 g
- (2) 1150 g
- (3) 1200 g
- (4) 1250 g

6. The figure below is made up of a rectangle, a square and a triangle. Given that the length of the rectangle is twice its breadth, find the perimeter of the whole figure.

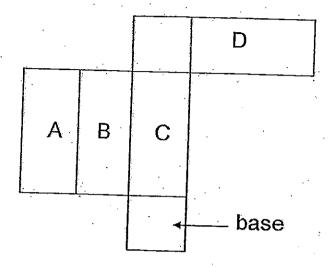


- (1) 21 cm
- (2) 27 cm
- (3) 30 cm
- (4) 33 cm
- 7. The figure below shows two triangles. Which one of the following statements is true about the figure?



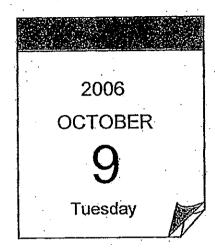
- (1) $\angle c + \angle d = \angle a$
- (2) $\angle b + \angle c = \angle d$
- (3) $\angle a + \angle b + \angle c = 180^{\circ}$
- (4) $\angle b + \angle c + \angle d = 180^{\circ}$

8. The figure below is a net of a cuboid. Name two faces of the cuboid that are opposite each other.

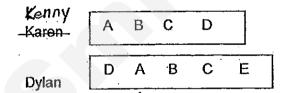


- (1) A and B
- (2) A and D
- (3) B and D
- (4) C and D

9. Amelia was born on the date as shown in the calendar below. Her cousin, Roy, was born 10 days before her. What day of the week was Roy's birthday?



- (1) Sunday
- (2) Monday
- (3) Friday
- (4) Saturday
- Kenny and Dylan each used some letters to make a set of patterns on rectangular cards as shown below.
 They make repeated patterns with the cards created.



Which letter will first appear in the same position in both patterns?

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

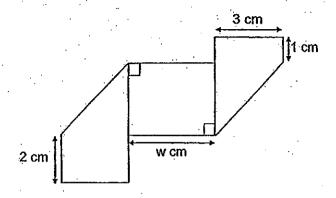
- 11. There were 10 more boys than girls at an outing. Each boy was given 3 sweets and each girl was given 4 sweets. A total of 156 sweets were given to the children. How many boys were there at the outing?
 - (1) 36
 - (2) 28
 - (3) 18
 - (4) 8
- 12. Winnie is n years old. She is 3 times as old as Joyce. Amanda is 4 years younger than Joyce. How old is Amanda?
 - (1) $\frac{n}{3}-4$
 - (2) $\frac{n}{3} + 4$
 - (3) 3n + 4
 - (4) 3n-4
- 13. The table below shows the charges for delivering a parcel.

\$1.00	
	ŀ
	\$1.00

Jolin paid \$4.50 for the delivery of a parcel. Which one of the following is the possible mass of her parcel?

- (1) 150 g
- (2) 115 g
- (3) 95 g
- (4) 90 g

14. A rectangular piece of paper of perimeter 32 cm was folded once at the two ends to form the shape as shown below. Find the value of w.



- (1) 10
- (2) 8
- (3) 6
- (4) 4
- 15. The average price of 3 key chains and 2 mugs is \$10.50.

The average price of the key chains is \$8.50.

Find the average price of the mugs.

- (1) \$9.00
- (2) \$2.00
- (3) \$12.50
- (4) \$13.50



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SINGAPORE HOKKIEN HUAY KUAN 5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATIONS TAO NAN . AI TONG . CHONGFU . NAN CHIAU . KONG HWA

2013 **MATHEMATICS** PAPER 1 **BOOKLET B**

Date: 23 August 2013

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

- ✓ Do not open this booklet until you are told to do so.
 ✓ Follow all instructions carefully.
- Answer all questions.
- √ You are not allowed to use a calculator

This booklet consists of 9 printed pages.

School	•		
Name	•	TOTAL	
Class			20

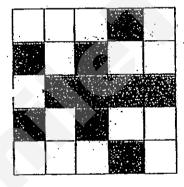
Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

16. Find the value of $7 \times (10 + 14) - 18 \div 9$.

Ans:

17. Draw a line of symmetry for the figure below.



SHHK_Prelims 2013_P6 MA_Paper 1_Booklet B

- 18. The following three sentences describe the location of point X.
 - (i) is exactly on the north-east of point X.
 - (ii) is exactly on the South-west of point X
 - (iii) is exactly on the South-east of point X.

Mark "X" on the grid map below to indicate the location of point X.

in this space

Do not write

9.	Last year Malcolm was 14 years old and Mrs Tan was 42 years old. How old will Malcolm be when Mrs Tan is n years old?		
	•		
	• •		
	•		
		Ans:	
	•		
0.	The table below shows th	e prices of apples and oranges sold at a	
	supermarket.		
		Acous magnetice pe firij 🐯	ľ
	Apple	m cents	
	Orange	(m + 5) cents	
	Benjamin bought 6 fruits. apples, How much did he (Give your answer in term		
	apples. How much did he	spend?	
	apples. How much did he	spend?	
	apples. How much did he	spend?	
٠	apples. How much did he	spend?	
	apples. How much did he	spend? is of m.)	
•	apples. How much did he	spend?	
	apples. How much did he	spend? is of m.)	
•	apples. How much did he	spend? is of m.)	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples. How much did he	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents tage.	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents	
	apples, How much did he (Give your answer in term	spend? is of m.) Ans:cents tage.	

22.	60% of Ryan's savings is equal to $\frac{3}{10}$ of Dean's savings.
	Express Dean's savings as a ratio of Ryan's savings in its simples
	form

Do not write in this space

Ans:

23. Marcus bought a packet of potato chips for \$0.85 and a chocolate muffin for \$1.40. He gave the cashier a \$5 note. He received his change all in coins. What is the least number of coins Marcus would have received?

Ans:

24.	5.06 litres of water is poured into some 2-t bottles. Each bottle is filled	
	to the 2-litre mark except the last bottle. How much water is there in the	e
	last bottle?	

Do not-write in this space



Ans: mi

25. A construction company takes $\frac{3}{5}$ of a year to complete local projects that it has taken on. Given that each local project requires exactly $\frac{3}{10}$ of a year to complete, how many local projects has the company taken on?

Ans:

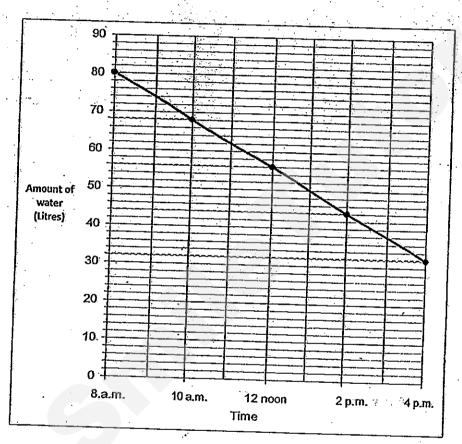
SHHK_Prelims 2013_P6 MA_Paper 1_Booklet B

Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answer in the units stated.

(10 marks)

Do not write in this space

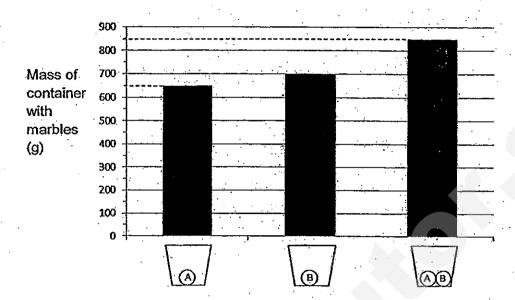
26. Water was leaking from a tank in a water company. The line graph below shows the amount of water in the tank over a period of 8 hours.



Given that the company had to pay a fine of \$12 for every 4 litres of water leaked, how much fine did the water company pay from 8 a.m. to 4 p.m.?

Ans:	\$	
	Ψ	

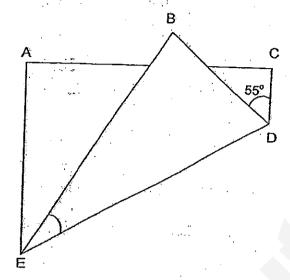
27. The graph below shows the mass of each identical container when different types of Marbles A and B are put in. Find the mass of one empty container.



Ans: _____

28. In the figure below, a rectangular piece of paper was folded as shown. Find ∠ DEB.

Do not write in this space



Ans:

SHHK_Prelims 2013_P6 MA_Paper 1_Booklet B

29.	Amanda is given some money to buy some pens. She has used $\frac{4}{5}$ of
	her money to buy 8 pens. If she wants to buy 4 more pens, she will need
	another \$1.40. What is the cost of 1 pen?

Do not write in this space

Ans: \$		
---------	--	--

30. The ratio of the amount of water in Tank X to the amount of water in Tank Y was 1:4 at first. When 35 t of water was transferred from Tank X to Tank Y, the new ratio became 1:9. How much water was in Tank Y at first?

Ans:

End of Paper 1



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SINGAPORE HOKKIEN HUAY KUAN 5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATIONS TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA

2013 数学 MATHEMATICS PAPER 2

Date: 23 August 2013

Total Time for Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

√ Follow all instructions carefully.

√ Answer all questions.

Show your working clearly as marks are awarded for correct answers

√ You are allowed to use a calculator.

This booklet consists of 16 printed pages.

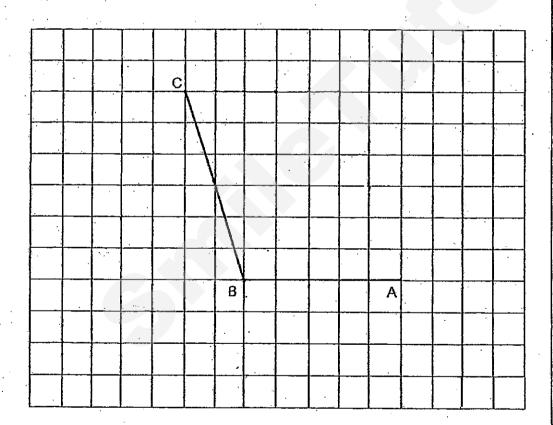
		Booklet A
School	•	Booklet B
Name	•	Paper 2
Class	•	Total Marks

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for 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 space

(10 marks)

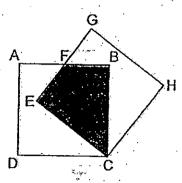
- 1. In the square grid below, two sides of a parallelogram ABCD have been drawn.
 - (a) Complete the drawing of the parallelogram ABCD.
 - (b) CB also forms one side of a triangle in which ∠ CBE is a right angle and CB = BE. Complete the drawing of the triangle CBE within the grid.



SHHK_Prelims 2013_P6 MA_Paper 2

The figure below shows 2 identical squares. Lines AF, FB, EF and FG are of the same length. The shaded area is 50 cm². Find the area of the unshaded parts.

Do not write in this space



Ans: ____ cm²

3. Some chairs were lined up in a row from one end to the other end of a field at an equal spacing of 1.3 m apart. When a few chairs were removed, the remaining 6 chairs had to line up from one end to the other end of the field at a new equal spacing of 2.6 m apart. How many chairs were removed?

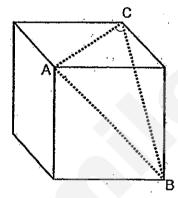
Ans: _____

4. Jordan has a rectangular board that measures 15 cm by 11 cm. He uses 35 identical square tiles to cover the board leaving an area of 25 cm² uncovered. Find the area of one square tile used.

Do not write in this space

Ans:	200
Ans:	cn

5. The figure below shows a cube. Given that A, B and C are points at the corners of the cube, what is \angle ABC?



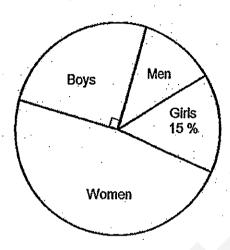
Ans:

	Mathematics Primary 6 Preliminary Paper 2 - Errata	Do not write
Nam	- stot / tag dot 10 / 0	in this space
Clas		: ,
	uestions 6 to 18, show your working clearly in the space below each	
	tion and write your answers in the spaces provided.	• •
	number of marks available is shown in the brackets [] at the end of	
each	question or part-question. (50 marks)	
		
6.	In a fruit stall, the number of apples was $\frac{4}{5}$ the number of pears.	
na sike	After some pears were sold, the number of pears decreased to 40% of the total number of fruits left. There was a total of 600 apples and	
	pears left. How many pears were sold?	
		
•		
•		
•	The state of the s	
	<u>,</u>	
	Ans:[3]	
SHHK	Prelims 2013_P6 MA_Paper 2	<u> </u>

4.

7. The pie chart below shows the percentage of men, women, boys and girls at a funfair. There were 675 boys at the funfair. The number of men was $\frac{1}{4}$ the number of women. How many men were there at the funfair?

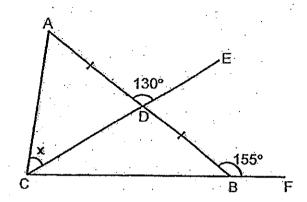
Do not write in this space



Ans : _____[3

8. In the figure below, ABC is a triangle. CF and CE are straight lines. AD = DB, \angle ADE = 130° and \angle ABF = 155°. Find \angle x.

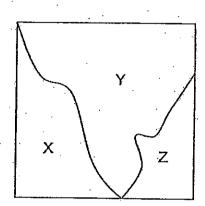
Do not write in this space



Ans:_____[3]

9. In the figure below, a square is cut into 3 parts X, Y and Z. The area of X is $\frac{1}{3}$ of the area of the whole square and the area of Y is $\frac{7}{4}$ of the area of Z. What is the ratio of the area of X to the area of Y to the area of Z?

Do not write in this space



Ans: [3]

10. After using $\frac{1}{3}$ of his potatoes, a food stall owner bought another 2 kg of potatoes. As a result, the stall owner now has $\frac{5}{6}$ as much potatoes as what he had at first. How many kilograms of potatoes were there at first?

Do not write in this space

Ans : [3

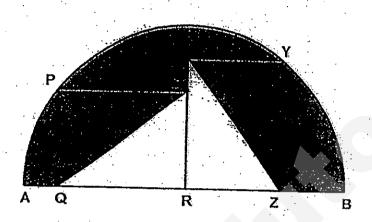
11.	Mr Wang drove at a constant speed from Town A to Town B.
	At 9.20 a.m., he was 794 km from Town B and 206 km from Town A.
	At 12:50 p.m., he stopped at a petrol kiosk which was midway
	between Town A and Town B. At what speed did Mr Wang drive
	before he reached the petrol kiosk?

Do not write in this space

	Ans :	[4]
	•	
•		
<i>`.</i>		
•	• • • • • •	

12. The figure below shows two identical rectangles within a semicircle of diameter 10 cm. R is the centre of the semicircle. Given that Rectangle PQRS and Rectangle XYZR has a perimeter of 14 cm each and line XS is 1 cm. Find the perimeter of the shaded part. (Correct your answer to 2 decimal places)

Do not write in this space

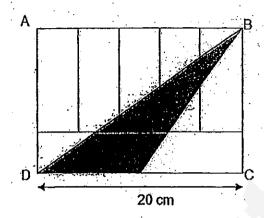


Ans:_____[4]

13. In the figure below, rectangle ABCD is made up of 7 identical smaller rectangles.

Do not write in this space

- (a) Find the perimeter of the rectangle ABCD.
- (b) Find the area of the shaded triangle.

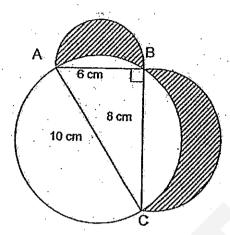


Ans: (a)_____[3

(b)_____[1]

- 14. The figure below is made up of a right-angled triangle and a circle overlapping two semicircles. AC is the diameter of the circle. (Take $\pi = 3.14$)
- Do not write in this space

- (a) Find the perimeter of the shaded parts.
- (b) Find the total area of the shaded parts.

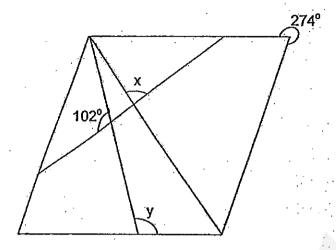


Ans: (a) [2]

(b)_____[3]

15. The figure below shows a rhombus divided into 6 parts with 3 straight lines. Find the sum of $\angle x$ and $\angle y$.

Do not write in this space



Ans: _____[4]

16.	Nigel had some 20¢ coins and 50¢-coins. He spent $\frac{1}{2}$ of his 20¢ coins	Do not write in this space
	and 75% of his 50¢ coins. The value of 20¢ coins left was the same as the value of 50¢ coins left. Given that the difference between the value of 20¢ coins and the value of 50¢ coins he had at first was \$40, how much did Nigel have at first?	
	The mast did mast get mast	
٠.		
		•
		-
•		
		•

17. In a shooting practice, Joel obtained the scores of 5, 7, 8 and 9 after shooting four times. The highest possible score for each shot was 10. After another three shots, Joel's average score became 8. Then, he had another three shots and his average score became 8.5. What were the possible scores for the last three shots?

Do not write in this space

	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Scores	5	7	8	9						

Ans	:	 [5]

18.	Ali, Ben and Calvin collected stamps in the ratio 7:4:9. After Calvin	I Do Hotoura
	gave $\frac{3}{10}$ of his stamps to Ali and Ben, Ali had 60 more stamps than	Do not write in this space
	Calvin and Ben's number of stamps increased by 35%.	
	(a) What was the ratio of Ali's stamps to Ben's stamps to Calvin's stamps in the end? (b) How many stamps did Calvin have at first?	
:		
		l I
		: :
		•
		•
		•
	Ans : (a)[3]	
	(b)[2]	

End of Paper 2



EXAM PAPER 2013

SCHOOL: HOKKIEN PRIMARY SCHOOL

: PRIMARY 6 LEVEL SUBJECT: MATHS

TERM SA₂



Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	014	Q15	016
1	3	3	2	3	3	.2	3	4	4	2	1	3	4	4	

16) 166

17)

18)

19) n-28 years old

20) 6m+15 cents

21)8%

22) 2:1

23) 5 coins

24) 1060 ml

25) 2

26) \$144

27) 500g

28) 27.5°

29) \$ 0.70

30) 280 [

Paper 2#

1)

2) $50x2 = 100cm^2$

3) 6-1 = 5

2.6x5=13

 $13 \div 1.3 = 10$

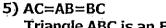
10+1 = 11

11-6 = 5

4) 15x11= 165

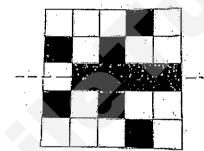
165-25 = 140

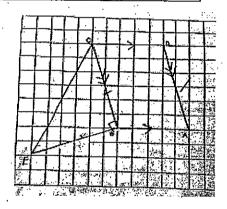
 $140 \div 35 = 4$

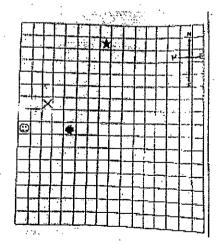


Triangle ABC is an Equilateral Triangle,

<ABC = 60°







10)
$$6u - 2u = 4u$$

 $5u - 4u = 1u$
 $1u \rightarrow 2kg$
 $6u \rightarrow 12kg$

12)
$$14-1-1=12$$

 $12\div 4=3$
 $3+1=4$
 $10-4-3=3$
 $\frac{1}{2} \times \pi \times 10 = 15.71$
 $5\times 2=10$
15.71+10+3+1=29.71cm

b)
$$\frac{1}{2} \times 14 \times 10 = 70$$

14) a) $\frac{1}{2} \times 3.14 \times 10 = 15.7$
 $\frac{1}{2} \times 3.14 \times 6 = 9.42$
 $\frac{1}{2} \times 3.14 \times 8 = 12.56$
15.7+9.42+12.56=37.68
b) $\frac{1}{2} \times 6 \times 8 = 24$
 $\frac{1}{2} \times 3.14 \times 3 \times 3 + \frac{1}{2} \times 3.14 \times 4 \times 4 = 39.25$
 $\frac{1}{2} \times 3.14 \times 5 \times 5 = 39.25$
39.25+24-39.29=24

15) 360-274=86
(360-86-86)÷2=94
(360-102-102)÷2=78
(180-86)÷2=47
360-102-47=211°

16)
25%B - 50%A = 0
100%B - 100%A=40
100%B - 200%A=0
100%B - 200%A=0
100%B - 30
40+80=120

17) 8x7 56
56-5-7-8-9=27
27÷3=9
8.5x10 = 85
85-5-7-8-9-27 = 29
(10, 10, 9)

18)
A:B:C
7:4:9
70:40:90
3x9=27u
100% \rightarrow 40u

B 135% → 54u 54-40 = 14u 27u -14u = 13u A = 70+13 = 83u C = 90-27 = 63u

A:B:C 83: 54:63

b) 20u → 60 90u → 270



CATHOLIC HIGH SCHOOL PRELIMINARY EXAMINATION 1 2013

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET A)

Name:	
Class: P 6	
Date: 20 May 2013	
15 questions	
20 marks	
Total Time for Booklets A a	nd B: 50 min
Decklot A : Dogo 4 to 6	

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

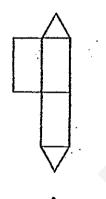
Shade your answers in the Optical Answer Sheet (OAS) provided.

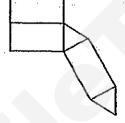
You are not allowed to use a calculator.

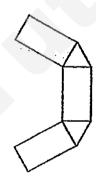
Answer all questions.

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

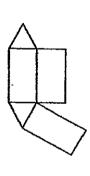
- 1. Which of the following is the best estimate for 337×74 ?
 - (1) 330×70
 - (2) 330×80
 - (3) 340 × 70
 - (4) 340 × 80
- 2. Which of the following figures is a net of a prism?







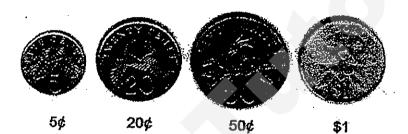
C



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

- 3. Which of the following is nearest to 1?
 - (1) $\frac{1}{2}$
 - (2) $\frac{2}{5}$
 - (3) $1\frac{2}{3}$
 - (4) $1\frac{3}{4}$
- 4. Round off 75 485 to the nearest hundred.
 - (1) 75 000
 - (2) 75 490
 - (3) 75 500
 - (4) 80 000
- The amount of time Jeremy takes to sing the National Anthem of Singapore at the flag-raising ceremony every morning is approximately
 - (1) 1.5 s
 - (2) 1.5 min
 - (3) 15 s
 - (4) 15 min
- 6. Find the sum of 3 hundreds, 8 tenths and 7 thousandths.
 - (1) 380.007
 - (2) 300.780
 - (3) 300.807
 - (4) 300.087

- 7. Express 2.5% as a fraction.
 - (1) $\frac{1}{4}$
 - (2) $\frac{1}{40}$
 - (3) $\frac{2}{5}$
 - (4) $2\frac{1}{2}$
- 8. Ethan had the following coins in his wallet.

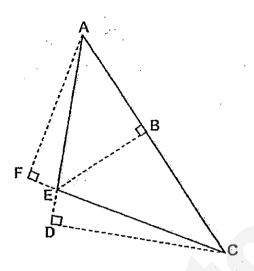


He used some coins to pay for sweets at a candy shop. He used two coins without receiving any change.

Which of the following amount could not be the payment amount?

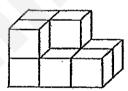
- (1) 25¢
- (2) 70¢
- (3) \$1.05
- (4) \$1.25

9. ACE is a triangle. Which one of the following gives the area of ACE?



- (1) $\frac{1}{2} \times AD \times DC$
- (2) $\frac{1}{2} \times EC \times AF$
- (3) $\frac{1}{2} \times AC \times AF$
- (4) $\frac{1}{2} \times EC \times EB$
- 10. The ratio of the number of pens Benjamin has to the number of pens Jeremy has is 1:4.
 What percentage of the total number of pens does Jeremy have?
 - (1) 20%
 - (2) 25%
 - (3) 80%
 - (4) 125%

- 11. Gabriel had a 3 m string. He used $2\frac{3}{4}$ m to tie a carton box and cut the remaining string equally into 5 shorter pieces. What is the length of each of the shorter piece of string?
 - (1) $\frac{4}{5}$ m
 - (2) $\frac{1}{20}$ m
 - (3) 1¹/₄ m
 - (4) 20 m
- 12. Jane and Sally were queuing in a line. Jane was in the middle of the line and Sally was the 8th in the line. There were 41 pupils altogether. How many pupils were there between Jane and Sally?
 - (1) 11
 - (2) 12
 - (3) 13
 - (4) 14
- 13. The solid below is made up of identical unit cubes.



What is the least number of unit cubes that could be added to the solid to form the next bigger cube?

- (1) 3
- (2) 9
- (3) 18
- (4) 27

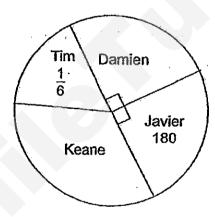
14. The table shows the parking charges at a car park.

Vehicle parking charges					
7.00 a.m to 5.30 p.m. \$1.20 per hour or part thereof					
After 5.30 p.m	\$3.00 per entry				

How much would Mrs Wong have to pay if she parked her car from 4.15 p.m. to 7 p.m. on the same day?

- (1) \$4.50
- (2) \$5.40
- (3) \$9.00
- (4) \$9.90

15. The pie chart represents the number of game cards Tim, Damien, Javier and Keane each had in their collection.



Javier had 180 game cards while Tim had $\frac{1}{6}$ of the total number of game cards. How many game cards did Keane have?

- (1) 240
- (2) 300
- (3) 330
- (4) 600

END OF BOOKLET A



CATHOLIC HIGH SCHOOL

PRELIMINARY EXAMINATION 1 2013

MATHEMATICS

PRIMARY 6

PAPER 1

(BOOKLET B)

Name: (· · ·)	Booklet A
Class: P 6	Booklet B
Date: 20 May 2013	DOOKIEC D
15 questions	Total

20 marks

Total Time for Booklets A and B: 50 min

Booklet B: Page 7 to 13

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are not allowed to use a calculator.

Answer all questions.

Question provided stated.	s 16 to 25 carry 1 mark each. Write your answers in the spaces. For questions which require units, give your answers in the units (10 marks)	Do not write In this space.
16. W	rite three hundred and fifty thousand and sixty-eight in figures.	
	Ans:	
17. Fil	nd the value of 36 – 24 ÷ 12 + (9 + 8) x 4.	
		·
	Ans:	
18. Fi	nd the value of 38.52 ÷ 60.	
	· ·	
. Nest	Ans:	
e sager		

40	Milita dave all the common f		-540		~ 1
19.	Write down all the common for	aciois	กกาช	ลกด	14
		~~~~	•• ••	<b></b>	

Do not write in this space.

Ans:

20.  $\frac{3}{5}$  kg of beads was packed into bags of  $\frac{3}{10}$  kg each. How many bags of beads were there?

Ans:_____

21. Find the value of  $7m - 47 - \frac{5m}{6}$  when m = 8. Give your answer as a mixed number in the simplest form.

Ans:

22.	How many mark	number of Royce's bles must Jaren give	marbles to Jar to Royce so t	en's marbles hat each of th	is 3 : 7. Do not write nem has in this space.
	45 marbles?				
•					
	+ 2		.•		
		•			
		To the way			
****					
	•		A		
			Ans	3	
23.	John and his fri	lends visited a theme	e park. They let theme park i	eft the theme	park at
23.	17 30. At what 1 7 h 20 min there	time did they enter th	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at ent
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	eft the theme f they had spe	park at
23.	17 30. At what 1 7 h 20 min there	time did they enter th e?	e theme park i	f they had spe	park at ent

24.	What wood	is the	e ma boid	ximum measu	num ring 1	ber o 9 cm	of 3-cr by 6 (	n cub cm by	es tha 12 cm	at car 1?	be o	cut fro	m a	Do not write in this space.
. ·					12 6 cm	cm			• • •		·			
	l	19	cm		/ O GI	i								
														<u></u>
	,		•						An	s:				
25.	as its	line of	of syr other	low sh nmetry half o										
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Total marks for questions 16 to 25 (Go on to the next page)

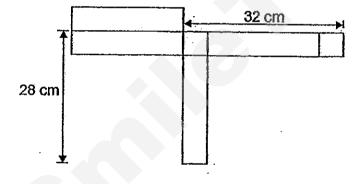
Questions 26 to 30 carry 2 marks each. Show your working and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26. Express  $\frac{6}{7}$  as a decimal and correct the answer to 2 decimal places.

		ľ	
\ns:	•		ĺ

27. The figure below shows the net of a cuboid with a square base. Find the volume of the cuboid.



Ans: ____cm³

28. Mr Lee paid \$288 for 2 pairs of shoes at a shoe shop during a sale. What was the usual price of the pair of shoes?

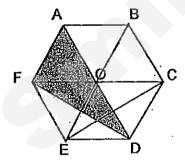
Do not write in this space.

SALE!

Buy a pair of shoes and get another pair of shoes at 40% discount.

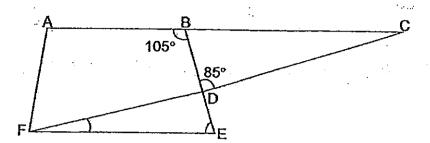
Ans: \$ _____

29. In the diagram below, ABCO and FODE are identical rhombuses and AOF and OCD are identical equilateral triangles. What fraction of the figure ABCDEF is shaded?



Ans:____

30. In the figure below, ABEF is a trapezium and BCD is a triangle. ABC is a straight line. ∠FDE = ∠CDE. Find ∠DFE.



Ans:______

Total marks for questions 26 to 30

END OF BOOKLET B END OF PAPER 1



#### **CATHOLIC HIGH SCHOOL**

#### **PRELIMINARY EXAMINATION 1 2013**

#### **MATHEMATICS**

#### **PRIMARY 6**

#### PAPER 2

Name : (	)	
Class : P 6	Paper 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Date: 20 May 2013	Booklet A	20
Total Time: 1 h 40 min	Paper 1 Booklet B	20
Parent's Signature:	Paper 2	60
, arone orginator	Total Marks	100

There are 16 pages in this booklet.

# **INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

Answer all questions.

Questions 1 to 5 carry 2 marks each. Show your working clearly as answers in the spaces provided. For questions which require units.	
answers in the units stated. All diagrams are not drawn to scale.	(10 marks)

Do not write in this space.

1.	Mitchell had 58k number of sweets. He gave 34k number of sweets to
	his younger brother and packed the remaining sweets equally into 6
•	plastic bags. How many sweets were there in each plastic bag?
	Give your answer in terms of <i>k</i> in the simplest form.

Ans:		

Fabian used identical square tiles to form a sequence of patterns.
 The first four patterns are shown below.



Pattern 1

Pattern 2

Pattern 3

Pattern 4

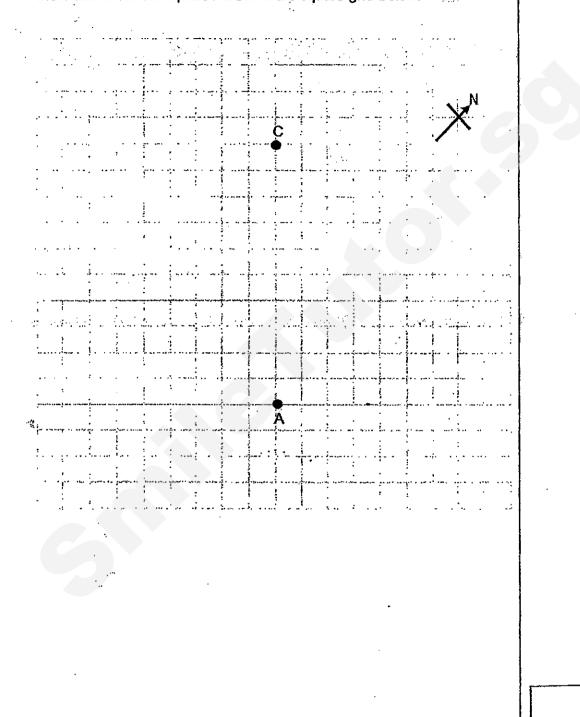
The vertical height of Pattern 1 is 3 cm. What is the vertical height of Pattern 50?

Ans:____cm

3. A, B C and D are four points on a square grid below. ABCD is a square such that D is north of A and B is west of A.

Draw and label the square ABCD in the square grid below.

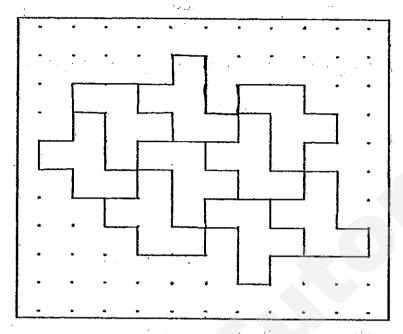
Do not write in this space.



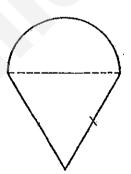
4. The pattern in the box shows part of a tessellation.

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

Do not write in this space.



5. The figure is made up of a semicircle and an equilateral triangle. The diameter of the semicircle is 10 cm. What is the perimeter of the figure? Leave your answer in terms of  $\pi$ .



Ans: _____cm

For questions 6 to 18, show your working 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. All diagrams are not drawn to scale. (50 marks)

Do not write in this space.

6. 4 children share some stamps. The average number of stamps Abel and Betty has is 158. The average number of stamps Don and John has is 140. What is the average number of stamps each child has?

Ans: [3]

7.  $\frac{1}{3}$  of Walter's savings is  $\frac{3}{5}$  of Bryan's savings. Their difference in savings is \$288. How much is their total savings?

Do not write in this space.

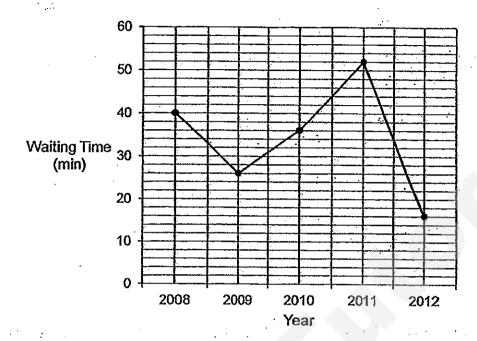
	•		-
Ans:		[3]	

8.	Michelle spends 35% of her salary every month. Her salary for Jurwas 20% more than that of May. As a result, her expenditure in Jurincreased by \$175. How much was Michelle's expenditure in May?	Do not write in this space.
	en e	
	-	
	Ans:	3]
-	(Go on to the nex	t page)

6

 The line graph below shows the average waiting time from 2008 to 2012 for the patients at the emergency department of a hospital.

Do not write in this space.



- (a) What was the difference between the longest waiting time and the shortest waiting time during the period from 2008 to 2012?
- (b) Find the percentage increase in waiting time for a patient between 2009 and 2010.

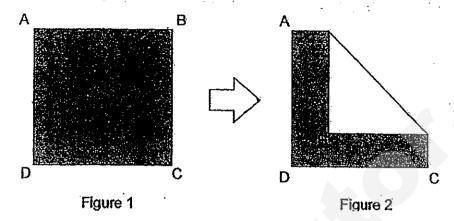
(Give your answer correct to 1 decimal place)

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

	What was the cost o	n ate video can	ilera r		
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		ıΑ	ns:	[3]	
			•		

11. A square piece of paper, ABCD, is shaded on one side as shown in Figure 1. It is then folded at its corner B to form an isosceles triangle as shown in Figure 2. The perimeter and area of the remaining shaded region in Figure 2 is 72 cm and 180 cm² respectively. Find the area of the isosceles triangle.

Do not write in this space.



12. In a telematch, Ryan and Bala competed with each other to get from the Do not write starting line to the finishing line by playing the Scissors-Paper-Stone in this space. game. Each win of the game allows the winner to move forward by 3 steps. The loser moves backward by 1 step. Ryan played 50 times of the game with Bala and crossed the finishing line first. There were 94 steps between the starting line and the finishing line. How many times did Ryan win the game?

13.	Max paid \$7.70 for 6 erasers and 4 pens money, he could buy 14 erasers. If he had how many pens could he buy with \$19.80?	. With the same I decided to bu	e amount of y pens only,	Do not write in this space.
		12.4	٠.	
	•	•		
. · .			٠.	
		•		
	•			
		Ans:	[4]	
		(Ģo o	n to the next	page)

11

14. Mrs Tay baked some chocolate and vanilla cakes.  $\frac{3}{5}$  of the cakes were chocolate and the rest were vanilla. She gave away  $\frac{1}{3}$  of the total number of cakes. An equal number of chocolate and vanilla cakes were given away and 14 vanilla cakes were left. How many chocolate cakes were left?

Do not write in this space.

Ans:	[4]	

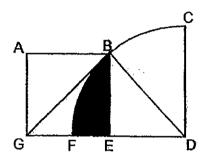
15. Charlotte, Judith and Maple shared some stickers. The ratio of the total number of stickers received by Judith and Maple to the number of stickers received by Charlotte was 3:4. When Charlotte gave 20 stickers to Judith and 15 stickers to Maple, and Judith gave 10 stickers to Maple, each of them had the same number of stickers. Find the total number of stickers Judith had at first.

Do not write in this space,

Ans:	[4]	

16. The figure is made up of a quarter circle CDF and a square ABEG. The corner B of the square lies on the circumference of the quarter circle. GFED is a straight line. GB = FD = 10 cm. Find the area of the shaded part BEF. (Take  $\pi = 3.14$ )

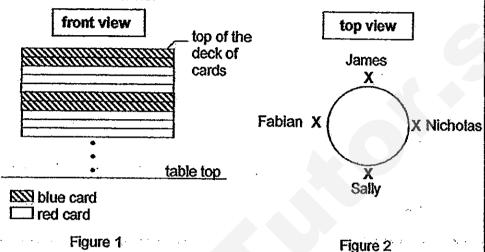
Do not write in this space.



Ans:_____[5]

17. On a table top was a deck of coloured cards such that for every two blue cards, there were three red cards. The cards were arranged in the order as shown in Figure 1. James and his friends, Nicholas, Sally and Fabian, sat round the table as shown in Figure 2. Starting with James, each person took turns to draw a card from the top of the deck of cards in a clock-wise direction. They continued to draw until there were no cards left on the table.

Do not write in this space.



- (a) How many cards did each person have in their hands when they had an identical set of cards each for the first time?
- (b) When all cards were drawn from the table, they counted that there were 36 more red cards than blue cards. How many cards were there in the deck of cards at first?

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

18.	There were some boys and girls in the school hall at first. 40% of the boys and 10% of the girls left the school hall. As a result, $\frac{3}{4}$ of the pupils remained in the school hall. There were 12 more girls than boys who remained in the school hall. How many boys were there at first?	Do not write in this space.
		-
		-

END OF PAPER.
PLEASE CHECK YOUR WORK CAREFULLY.



# MSWER SHEET

**EXAM PAPER 2013** 

SCHOOL: CATHOLIC HIGH

**SUBJECT: PRIMARY 6 MATHEMATICS** 

TERM : SA1

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

16)350068

17)102

18)(0.642)

19)1,2,3,6

20)2

21)21/3

22)18

23)1010

24)48

25)

26)0.86

27)384cm₃

28)\$180

29)1/3

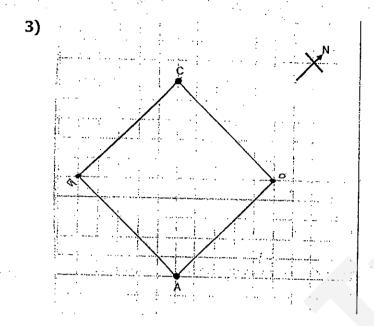
30)100°

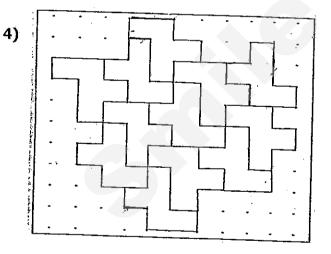
Page 1 to 4

page 1

Paper 2  
1)58k 
$$- 34k = 24k$$
  
 $24k \div 6 = 24k/6$   
 $= 4k$ 

2)
$$50 \div 2 = 25$$
  
25 x 3 = 75  
75 + 1.5 = 76.5cm





5)per of 
$$\longrightarrow \frac{1}{2} \times \Pi \times 15 = 5\Pi \text{cm}$$
  
Triangle  $\rightarrow 10 \times 2 = 20 \text{cm}$   
Total  $\rightarrow 5\Pi \text{cm} + 20 \text{cm}$   
 $= (5\Pi + 20) \text{cm}$ 

6)A + B = 
$$158 \times 2 = 316$$
  
D + J =  $140 \times 2 = 280$   
Total =  $316 + 280 = 596$   
Average =  $596 \div 4 = 149$ 

7)
$$4u \rightarrow $288$$
  
 $1u \rightarrow $288 \div 4 = $72$   
 $14u \rightarrow 72 \times 14 = $1008$ 

8)M
$$\rightarrow$$
100% J $\rightarrow$ 120%  
Spent during M $\rightarrow$ 100% x 35% = 35%  
Spent during J $\rightarrow$ 120% x 35% = 42%  
Diff $\rightarrow$ 42% - 35% = 7%  
7%  $\rightarrow$ \$175  
1%  $\rightarrow$ \$25  
35%  $\rightarrow$ \$25 x 35 = \$875

9)a)Longest
$$\rightarrow$$
2011 = 52min  
Shortest $\rightarrow$ 2012 = 16min  
Diff $\rightarrow$ 52 - 16 = 36 min  
b)Diff $\rightarrow$ 16 $\div$ 0.26 x 1%  $\approx$ 38.5%

10)5u
$$\rightarrow$$
750 - 520 = 230  
1u $\rightarrow$ 230 $\div$ 5 = 46  
2u $\rightarrow$ 92  
Video camera $\rightarrow$ 520 - 92 = \$428

11)A. of ABCD
$$\rightarrow$$
18 x 18 = 324cm₂  
A. of BEFG $\rightarrow$ 324 - 180 = 144cm₂  
A. of  $\searrow$   $\rightarrow$ 144  $\div$  2 = 72cm₂

lose	Total
$25 \times 1 = 25$	75 - 25 = 50 X
20x1 = 20	90 - 20 = 70 X
$10 \times 1 = 10$	120 - 10 = 110 X
15x1=15	105 - 15 = 90 X
13x1=13	111 - 13 = 98 X
$14 \times 1 = 14$	108 - 14 = 94
	25x1=25 20x1=20 10x1=10 15x1=15 13x1=13

```
13)6e + 4p = $7.70
    14e = $7.70
   14e - 6e = 8e
    8e = 4p \quad 2e = 1p
    1e = $7.70 \div 14 = $0.55
    1p = $0.55 \times 2 = $1.10
    $19.80 \div $1.10 = 18 \text{ pens}
14)7u→14
    1u \rightarrow 14 \div 7 = 2
    13u \rightarrow 2 \times 13 = 26 cakes left
                                  J+M:J:M:C:T
15)J+M:C:T
     3:4:7
                                   14:7:7:7:2
        : 12: 21
     9
   Diff \rightarrow 120 - 70 = 50
   50 \rightarrow 20 + 15 = 35
   10 \rightarrow 35 \div 5 = 7
   Aft + J \rightarrow 7 \times 7 = 49
   Bef J \rightarrow 49 + 10 - 20 = 39
16) area of ABGE \rightarrow ( \frac{1}{2} x 10 x 5) x 2 = 50 cm<sup>2</sup>
    aea of Q \rightarrow \frac{1}{4} \times 3.14 \times 10 \times 10 = 78.5cm<sup>2</sup>
    area of big / \rightarrow \frac{1}{2} \times 20 \times 10 = 100 \text{cm}_2
    a + b \rightarrow 100cm_2 - 78.5cm_2 = 21.5cm_2
    b→10.75cm<sub>2</sub>
    area of GBE\rightarrow \frac{1}{2} \times 10 \times 5 = 25cm<sup>2</sup>
    shaded area \rightarrow 25cm<sub>2</sub> - 10.75cm<sub>2</sub> = 14.25cm<sub>2</sub>
17)a)5
     b)180
    check
    2 + 3 = 5
    3 - 2 = 1
    36 \div 1 = 36
    36 \times 5 = 180
18)20% g→20% g
    30% g/b→12
    1% g/b->12/30
```

 $100\% b \rightarrow 12/30 \times 100 = 40$ 

Name	:(	)
Class	: Primary 6	



## **Primary 6 Mathematics**

### 2013 Preliminary Examination

Paper 1

**Booklet A** 

20 August 2013

# TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

## 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,

THE USE OF CALCULATORS IS NOT ALLOWED.

This booklet consists of 8 printed pages including the cover page.

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).

(20 marks)

1) A charitable organisation raised \$624 728 last year. Express this amount to the nearest hundred dollars.

(1) \$624 000

(2) \$624 700

(3) \$624 800

(4) \$625 000

2) Evaluate 121 - (38 - 2) + 9 - 6.

(1) 111

(2) 109

(3) 66

(4) 27

3) 250 ÷ 200 = ____

(1) 125.0

(2) 12.5

(3) 1.25

(4) 0.125

4)	Jonah had 5 bags of sweets. 126g. The total mass of the remass of the 5 bags of sweets.	The average mass of 2 of the bags was maining bags was 328 g. Find the average					
••	(1) 90.8 g	(2) 116 g					
	(3) 247.2 g	(4) 580 g					
5)	5) Callie left Town G at 6.42 p.m. and reached Town K, the next day 10a.m How long did Callie take to reach Town K?						
	(1) 3 h 18 min	(2) 3 h 58 min					
	(3) 15 h 18 min						
		(4) 15 h 58 min					
6)	In a group of 60 pupils, 25% of girls are there?	them are girls. How many more boys than					
	(1) 10	(2) 15					
	(3) 30	(4) 45					
	,						

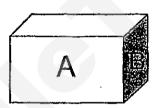
- Peniton's salary is  $\frac{1}{2}$  of Lorriane's salary. Lorriane's salary is  $\frac{6}{7}$  of Harifah's salary. What is the ratio of Harifah's salary to the total salary of the three people?
  - (1) 1:2

(2)7:9

(3)7:16

(4)7:25

8) The figure shows a cuboid with a volume of 640 m³. The shaded face, labelled B, is a square of area 64 m². What is the area of A?



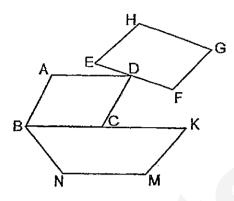
(1) 10 m²

(2) 40 m²

(3) 80 m²

(4) 100 m²

9) In the figure, ABCD and EFGH are identical rhombuses and BKMN is a trapezium. Which one of the following statements is true?



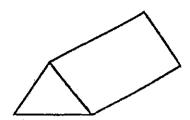
- (1) HE // GF // KM
- (2) AB // DC // KM
- (3) HG // EF // NM
- (4) AD // BC // NM
- 10) The ratio of Hailey's stamps to Irene's stamps was 4:9. After Hailey gave half of her stamps to Irene, Hailey had 48 stamps left. How many stamps did Irene have at first?
  - (1) 216

(2)264

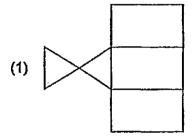
(3)414

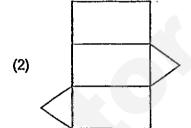
(4)528

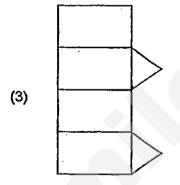
11) The figure below shows a prism.

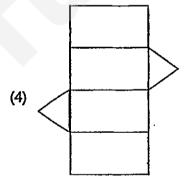


Which one of the following is a net of the prism?

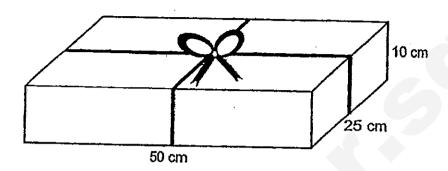








12) What is the length of ribbon needed to tie a box as shown if the ribbon goes around the box once, leaving 90 cm to tie a bow ?



(1) 1.9 m

(2) 2.6 m

(3) 2.8 m

- (4) 3.1 m
- 13) Mrs Louis baked some muffins.  $\frac{1}{6}$  of the them were chocolate muffins,  $\frac{1}{2}$  of them were blueberry muffins and the rest were strawberry muffins. She gave away  $\frac{2}{3}$  of the blueberry muffins and  $\frac{1}{3}$  of the strawberry muffins. What fraction of the muffins did she give away?
  - (1)  $\frac{4}{9}$

(2)  $\frac{5}{9}$ 

(3)  $\frac{11}{18}$ 

(4)  $\frac{6}{9}$ 

14) The table below shows the cost of yogurt sold at a store.

Mass	Cost
First 40 g	\$2.80
Next 20 g	\$1.30
Every additional 10 g or less	\$0.50

Joe bought a cup of yogurt with a mass of 94 g. How much does he need to pay for his yogurt if he is given a 10% discount?

(1) \$5.04

(2) \$5.49

(3) \$5.60

- (4) \$6.10
- Jennifer had some money. She bought 3 packets of chocolates that cost \$y each and had \$32 left. How much money, in terms of y, did she have at first?
  - (1) \$(32 + 3y)

(2) \$(32 - 3y)

(3)  $(32 + \frac{y}{3})$ 

(4)  $(32 - \frac{y}{3})$ 

End of Booklet A

Name	·	(	)
Class	: Primary 6		



#### **Primary 6 Mathematics**

#### 2013 Preliminary Examination

Paper 1

**Booklet B** 

20 August 2013

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

#### INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO. FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
WRITE YOUR ANSWERS IN THIS BOOKLET.
THE USE OF CALCULATORS IS <u>NOT</u> ALLOWED.

This booklet consists of 8 printed pages including the cover page.

prov	estions 16 to 25 carry 1 mark each. Write your answers in the spaces vided. For questions which require units, give your answers in the stated.  (10 marks)	Do not write in this space,
16)	Find the value of 1069 x 600.	
	Ans:	•
17)	Colie bought a pizza and gave $\frac{1}{4}$ of it to his friend. He cut the	
	remainder equally into 9 slices. What fraction of the pizza was each slice?	
	Ans :	
18)	A bag of 12.67 kg of nuts are re-packed into packets of 70 g each. How many packets were there altogether?	
	•	
	<b>A</b>	
	Ans:	
	2	1 ———

19) Tessa had \$4. She spent 60% of it on a book and 10% of it on some snacks. How much money had she left?

Do not write in this space.

Ans: \$____

20) Study the number pattern below.

$$3 \times 37 = 111$$

$$6 \times 37 = 222$$

$$9 \times 37 = 333$$

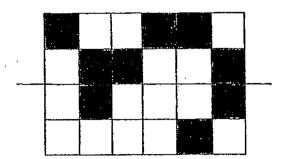
•

G x 37 = 888

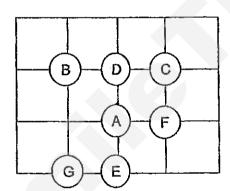
Find the value that G represents.

Ans:

21) The figure below is made up of identical squares. Shade three more squares to make a symmetric pattern which has a line of symmetry. Do not write in this space



22) Refer to the square grid below and fill in the blanks with the right answers.





Point A is northeast of point (a) _____ and (b) _____ of point D.

Ans: (a) _____

(b) _____

23)	The figure below shows two squares.  What fraction of the area of square B is the area of square A?	Do not write in
	6 cm B	this space
24)	Ans:  The area of one face of a cube is 49 cm². What is the volume of the cube?	
25)	Ans:cm³  Alfie travelled 460 km at an average speed of 80 km/h. Find the time Alfie took to cover this distance.	
	Ans:h	

Questions 26 to 30 carry 2 marks each. Show your working clearly and 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.

26) Polly has r bookmarks. Kellie has three times as many bookmarks as Polly and 9 more bookmarks than Frilly. How many more bookmarks does Frilly have than Polly? Give your answer in terms of r.

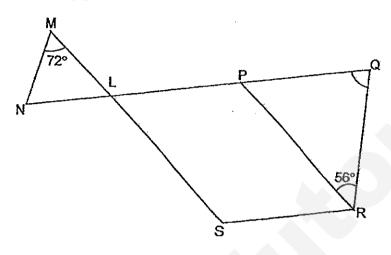
Ans:_____

At a stationery store, the price of a notepad is  $\frac{1}{5}$  the price of a pen. The price of a pack of coloured paper is  $\frac{1}{12}$  the total price of the pen and the notepad. What is the ratio of the price of the notepad to the price of the pack of coloured paper?

Ans :_____

28) In the figure below, not drawn to scale, LPRS is a parallelogram.
ML = NL and NQ and MS are straight lines.
Find ∠PQR.

Do not write in this space.



Ans:_____

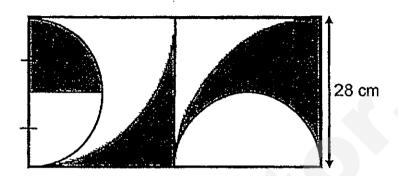
29) The mass of 4 pigs is 91.2 kg. One of the pigs has a mass of 36 kg. What is the average mass of the remaining pigs? Give your answer in kilograms and grams.

Ans:_____kg_____

30) The figure below is made up of 2 identical quadrants and 2 identical semicircles. Find the area of the shaded part of the figure.

Do not write in this space.

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



Ans: ____cm²

End of Booklet B

8

Name	:	( )	)
Class	· Primany 6		



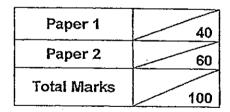
#### Primary 6 Mathematics

#### 2013 Preliminary Examination

Paper 2

20 August 2013

Parent's/Guardian's Signature



#### **TOTAL TIME FOR PAPER 2: 1 HOUR 40 MINUTES**

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO. FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
WRITE YOUR ANSWERS IN THIS BOOKLET.
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

This booklet consists of 16 printed pages including the cover page.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

1) Walter had 342 pieces of chocolates. He ate the same number of pieces of chocolates each day. At the end of the 8th day, ⁵/₉ of the chocolates was left. How many pieces of chocolates did he eat each day?

Ans:

2) For every watch James sells, he earns a commission of \$32. He will earn an additional \$26 for every 5 watches sold. How much commission will he earn if he sells 52 watches?

Ans:\$____

2

3)	Mrs Poon had some roses and daisies. $\frac{1}{4}$ of the flowers were roses.	Do not write in
	After selling 88 roses, $\frac{3}{5}$ of the roses were left. How many daisies did	this space.
	Mrs Poon have?	
	Ans:	
4)	Mrs Conchie bought 6 m 20 cm of ribbon and used up $\frac{3}{4}$ of it. She cut	
	the remaining ribbon into 5 equal strips. How long is each strip of ribbon?	
•		į
	Ans:m	
5)	Hui Yee paid \$1224 and \$480 for a television set and DVD player respectively after a discount of 20%. What was the total discount given?	
	,	·
	Ans:\$	
	3 3	<u> </u>

For questions 6 to 18, show your working clearly and write your answer 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)

Do not write in this space.

- 6) There were 1600 animals in Mr Loh's farm. 30% of the animals were ducks and the rest were chickens and geese. The ratio of the number of chickens to the number of geese is 11:3. He bought some more ducks and the percentage of ducks increased to 50%.
  - a) How many chickens were there?
  - b) How many ducks did he buy?

Ans : (a)	(3 m)	
(b)	(2 m)	

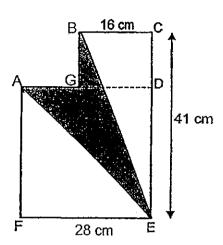
4

7) Ruth and Steve drove from City X to City Y. The distance between the two cities was 315 km. Ruth left City X 10 minutes after Steve, but Do not write in arrived at City Y 20 minutes before Steve. Steve's average speed was this space. 90 km/h. Find Ruth's average speed for the whole journey.

(3 m)

8) The figure below is not drawn to scale. ADEF is a square and BCDG is a rectangle. Given that BC = 16 cm, FE = 28 cm and CE = 41 cm, find the area of the shaded parts AEBG.

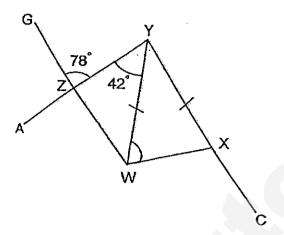
Do not write in this space.



Ans:_____(4 m)

9) In the figure below, not drawn to scale, WXYZ is a trapezium. AY, GW and YC are straight lines. Find ∠YWX.

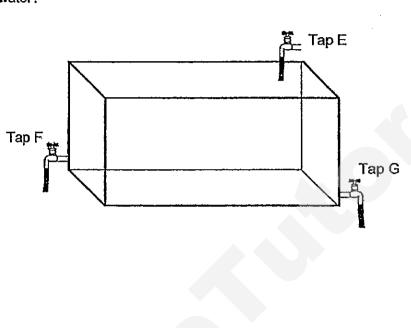
Do not write in this space.



Ans:_____ (3 m)

An empty rectangular container measures 116.8cm by 25cm by 40cm. Water from Tap E flows into the container at a rate of 5.2 ℓ per minute while Tap F and Tap G drain water from the container at 2.8 ℓ per minute and 1.6 ℓ per minute respectively. Tap E is turned on for 10 minutes before Tap F and Tap G are turned on at the same time. How long does it take for the container to be half-filled with water?

Do not write in this space.

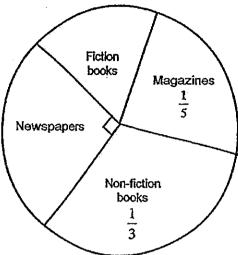


Ans:_____(4 m)

11) Four boxes, A, B, C and D, contain some marbles. Box D contains 108 marbles. Box A contains  $\frac{3}{4}$  of the total number of marbles in boxes B, C and D. The ratio of the number of marbles in box B to the total number of marbles in boxes C and D is 1:3. Box C contains 4 times the number of marbles in box D. How many marbles are there altogether in the four boxes?

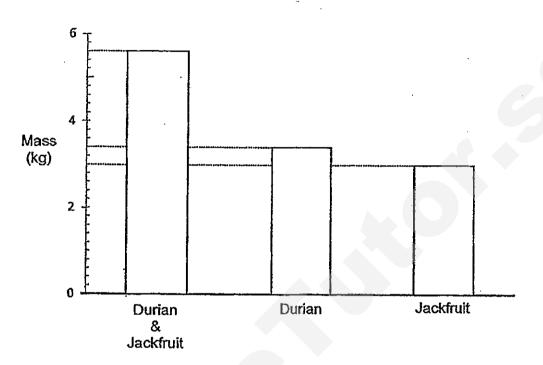
Ans:	(4 m)	
	9	

12) The pie chart below shows the number of items sold in a bookstore in a month. How many newspapers were sold if 845 fiction books were sold?



Ans:	(3 m)	
	10	L

13) The graph below shows the mass of three identical baskets with different combinations of durian and jackfruit placed in it.

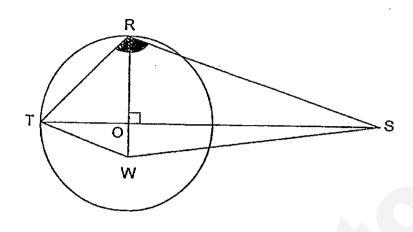


- a) What is the mass of the basket?
- b) What is the average mass of a durian and a jackfruit?

Ans: (a)	(2 m)	
(b)	(2 m)	
	11	

14) The figure below, not drawn to scale, is a circle with O as the centre. TS and RW are straight lines. The ratio of  $\angle$  RSO to  $\angle$  OSW is 2:1.  $\angle$  SWO = 73°. Find  $\angle$  TRS.

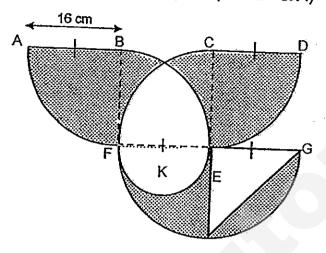
Do not write in this space.



Ans:_____(3 m)

The figure is made up of 6 identical quadrants, a semicircle K and a triangle. The total area of the unshaded parts in the figure is 370 cm². Find the total area of the shaded parts. (Take  $\pi$  = 3.14)

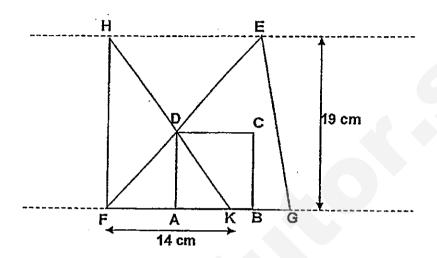
Do not write in this space.



Ans:_____(5 m)

16) The figure below, not drawn to scale, is made up of a square ABCD and two triangles EFG and FKH, overlapping one another. The square has an area of 81 cm². FK is 14 cm and it is  $\frac{2}{3}$  of the length of FG. Find the area of the figure.

Do not write in this space.



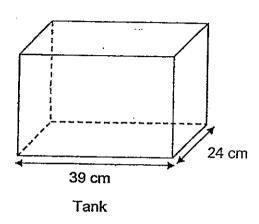
Ans:_____(3 m)

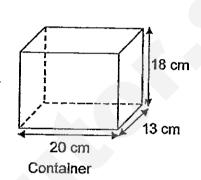
17) The figure below shows a tank 39 cm long and 24 cm wide. It was half-filled with water to a depth of 18 cm. Water was poured from the tank into an empty container 20 cm by 13 cm by 18 cm until the container was 80 % filled with water.

write in this space.

Do not

- a) What was the final water level in the tank?
- b) How much water was needed to fill up the entire tank?





 18) There were 1 570 pupils in a school at the beginning of the year. The ratio of the number of Chinese pupils to Malay pupils to Indian pupils was 5:3:2. In the middle of the year, 463 Chinese pupils joined the school while some Malay pupils and Indian pupils left the school. The percentage of Chinese pupils increased to 78% while the number of Malay pupils is equal to the number of Indian pupils.

- (a) How many Indian pupils left the school in the middle of the year?
- (b) What is the percentage decrease in the number of Indian pupils? Leave your answer correct to 1 decimal place.

	Ans: a)	(3 m)	
	b)	(1 m)	
End of Paper	r		
		16	
		3 6	



# MSWER SHEET

**EXAM PAPER 2013** 

SCHOOL: CHIJ

**SUBJECT: PRIMARY 6 MATHEMATICS** 

TERM : SA2

			, ——		· · · · · · · · · · · · · · · · · · ·									
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	014	015
2	1	3	. 2	3	3	3	3	4	1	2	3	1	2	1

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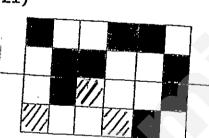
17)1/12

18)181

19)\$1.20

20)24

21)



22)a)G

b)South

23)4/9

24)343cm₃

25)53/4h

26)2r - 9

27)2:1

28)88°

29)18kg 400g

30)630cm₂

Paper 2

$$1)1 - 5/9 = 4/9$$
$$342 \times 4/9 \div 8 = 19$$

$$2)(32 \times 5) + 26 = 186$$

$$52 \div 5 = 10R2$$

$$186 \times 10 = 1860$$

$$2 \times 32 = 64$$

$$64 + 1860 = $1924$$

Page 1 to 3

page 1

$$3)88/2 \times 5 \times 3 = 660$$

$$4)6.2 \times \frac{1}{4} \div 5 = 0.31 \text{m}$$

$$5)(1224 + 48) \div 4 = $426$$

7)
$$315 \div 90 = 3.5$$
  
 $3\frac{1}{2} - \frac{1}{3} - \frac{1}{6} = 3$   
 $315 \div 3 = 105$ km/h

10)5.2 x 10 = 52  

$$40 \times 25 \times 116.8 \times \frac{1}{2} = 58400$$
  
 $5.2 - 2.8 - 1.6 = 0.8$   
 $58.4 - 52 = 6.4$   
 $6.4 \div 0.8 = 8$   
 $8 + 10 = 18 \text{min}$ 

11)(432 + 108) 
$$\div$$
3 = 180  
(180 + 108 + 432)  $\div$ 4 x 3 = 540  
540 + 180 + 432 + 108 = 1260

$$12)1 - \frac{1}{4} - \frac{1}{5} - \frac{1}{3} = \frac{13}{60}$$
  
 $845 \div 13 \times 60 \times \frac{1}{4} = 975$ 

13)a)(3 + 3.4) 
$$-$$
 5.6 = 0.8kg  
b)(5.6  $-$  0.8)  $\div$  2 = 24kg

```
14)(180^{\circ} - 90^{\circ} - 73^{\circ}) \times 2 = 34^{\circ}
     45^{\circ} + (180^{\circ} - 34^{\circ} - 90^{\circ}) = 101^{\circ}
15)3.14 \times 16 \times 6/4 = 1205.76
    3.14 \times 16 \div 2 = 401.92
    3.14 \times 8 \div 2 = 100.48
    16 \times 16 \times 0.5 = 128
    370 - 128 - 100.48 = 141.52
    1205.76 - 128 - 100.48 - (141.52 \times 2) = 694.24cm<sup>2</sup>
16)/81 = 9
     14 \div 2 = 7
     14 + 7 = 21
     \frac{1}{2} \times 19 \times 21 = 199.5 (EFG)
     \frac{1}{2} \times 14 \times 9 = 63
     \frac{1}{2} \times 14 \times 19 = 133
     133 - 63 = 70 \text{ (HDF)}
     70 + 199.5 = 269.5cm<sub>2</sub>
17)a)18 \times 39 \times 24 = 16848
       20 \times 13 \times 18 \times 80\% = 3744
       16848 - 3744 = 13104
       13104 \div 39 \div 24 = 14cm
    b)36 - 14 = 22
      22 \times 24 \times 39 = 20592cm<sup>3</sup>
18)5u + 463 = 78p
    1570 \div 10 = 157 (1u)
    785 + 463 = 78p
    1248 = 78p
    16 = 1p
   176 = 11p
   314 = 2u
   314 - 176 = 138
    138/314 \approx 43.9\%
a)138
```

b)43.9%

## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## PRIMARY 6 PRELIMINARY EXAMINATION 2013 **MATHEMATICS** PAPER 1

(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

## 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. The use of calculators in NOT allowed.

Name:_		(	
Class:	Primary 6.	`	
Date:	26 August 2013		

This booklet consists of 6 printed pages.

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 t	he quotient when 4 029 is divided by 4.
	(1) (2) (3) (4)	1 17 1 07 1 007
2	In 50.	.31, what does the digit 1 stands for?
	(1) (2) (3) (4)	1 one 1 tenth 1 hundredth 1 thousandth
3	Hot d What	logs are sold at \$1.70 each, or 2 for \$3.00. Meiling had \$17. t is the maximum number of hotdogs that she can buy?
	(1) (2) (3) (4)	9 10 11 12
4	friend	needs 250 g of minced beef to make 3 plates of spaghetti. He invited 9 ds over for dinner. How much minced beef does he need to make 9 s of spaghetti?
	(1) (2) (3) (4)	0.75 kg 2.25 kg 6.75 kg 7.50 kg
5	Whice class	ch of the following would be the most likely area of the floor of your sroom in school, which is in the shape of a square?
	(1) (2) (3) (4)	4 m ² 25 m ² 81 m ² 400 m ²

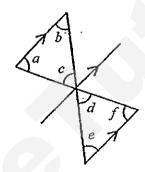
2

The table below shows the number of families who own pets. 6

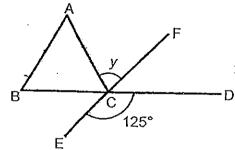
Number of families	Number of pets
20	1
10	2
8	3
5	4

How many families own at least 2 pets?

- (1)10
- 18
- 23
- 30
- Which one of the following statements is true? 7



- ∠a = ∠e ∠b = ∠d
- $\angle c = \angle f$
- ∠b = ∠e
- In the diagram below, ABC is an equilateral triangle. BD and EF are straight 8 lines. Find  $\angle y$ .

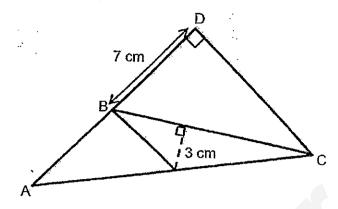


- 55°
- 60°
- 62.5°
- 65°

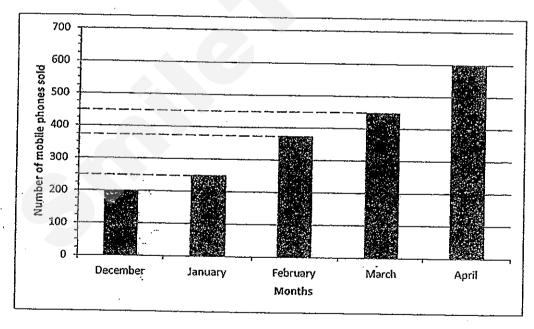
# HOUSE

- (1) O, E
- (2) H, O
- (3) S, U
- (4) H,S
- 10 Find the value of  $7 + \frac{6y}{7}$  when y = 8.
  - (1)  $8\frac{1}{7}$
  - (2)  $9\frac{3}{8}$
  - (3)  $13\frac{6}{7}$
  - (4) 15  $\frac{7}{8}$
- 11  $\frac{1}{9} + \frac{2}{9} + \frac{4}{9} = \boxed{?} \times 4 + \frac{1}{3}$ What is the missing value in the box?
  - (1)  $\frac{1}{c}$
  - (2)  $\frac{3}{9}$
  - (3)  $\frac{4}{9}$
  - (4)  $\frac{5}{9}$

12 In the figure below, AC = 15 cm, CD = 9 cm and AD = 12 cm. What is the area of triangle ABC?



- (1)  $7.5 \text{ cm}^2$
- (2) 31.5 cm²
- (3)  $22.5 \text{ cm}^2$
- (4) 37.5 cm²
- The bar graph below shows the number of mobile phones sold over a period of 4-months. Between which two months was there a 50% increase in the sales?



- (1) December and January
- (2) January and February
- (3) February and March
- (4) March and April

- Pillay scored an average of 67 marks in the last 3 topical tests. How many 14 marks must he score in the fourth test so that he can get an average of 73 marks?
  - 72 (1)
  - 79 (2) (3)
  - 85
  - 91
- Raymond saves 40% of his salary every month. If his salary increases by 15 15%, his savings will also increase by \$120. What is Raymond's salary?
  - \$800 (1)
  - \$1200 (2)
  - \$1550
  - \$2000

(Go on to Booklet B)

## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# PRIMARY 6 PRELIMINARY EXAMINATION 2013 MATHEMATICS

#### PAPER 1

(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

## **INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so. Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators in <u>NOT</u> allowed.

Name:_		(	)
Class:	Primary 6.		ŕ
Date:	26 August 2013		•

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 20
Paper 2	/ 60
TOTAL	- / 100

This booklet consists of 7 printed pages.

Que prov	estions 16 to 25 carry 1 mark each. Write your vided. For questions which require units, give you	answers in the spa our answers in the	ces units stated. (10 marks)	Do not write in this space
16	Find the largest whole number that gives 3 ( nearest hundred.	000 when rounded	off to the	
		Ans:		
17	Find the value of $8 \div \frac{3}{5}$ .			
	Express your answer as a mixed number.			
		Ans:		
18	Express 3 hundreds, 6 tenths and 55 thousa	ndths in decimal.		
		Ans:		
19	A pitcher can contain 1.4 litres of juice. It can contains the same amount of juice, how muc glass?	n fill 8 glasses. If e h juice is there in e	ach glass ach	
				,
		Ans:	ml	

20	Look at the scale below. Round off the mass shown on the scale to the nearest whole number.	Do not write in this space
	30 80 80 80 80 80 80 80 80 80 80 80 80 80	
	<b>Ans:</b> kg	3
21	The figure below is made up of 2 squares and an equilateral triangle. The ratio of the length of AB to the length of BC to the length of CD is 3:1:2. The length of AD is 24 cm. Find the perimeter of the figure below.	
	A B C D	
	Ans: cm	
22	Express 3.8 as a percentage.	
	Ans: %	
	Ans: %    3 (Go on to the next page	·)

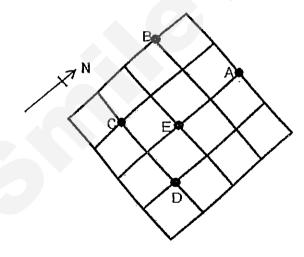
23. The difference in mass between two girls is 12 kg. If their total mass is 68 kg, what is the ratio of the mass of the heavier girl to the mass of the lighter girl?

Do not write in this space

Ans:

- David is at Point E. He followed the following instructions:
  - (i) Walk 2 squares to the East.
  - (ii) Walk 1 square to the North.
  - (iii) Walk 3 squares to the West.
  - (iv) Walk 2 squares to the South

Which point did he end up at?



		l
Ans:		- 1

4

(Go on to the next page)

5	Draw in the cuboid.	missing fa	ıce(s) in t	he grid b	elow to c	omplete	the net	of a	Do not write in this space
	f		<del></del>	·	<u> </u>				
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uran 	swers in the swers in the A number is I Vhat are all t	units state	ed. 0 and 50.	. It is a n	rulfiple o	. <u></u>	101)	narks)	
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					An	s:			

5

(Go on to the next page)

27 Amy's allowance is  $\frac{3}{8}$  of Beatrice's allowance.

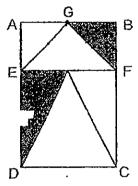
Do not write in this space

Cai Fang's allowance is  $\frac{3}{4}$  of Beatrice's allowance.

Express Beatrice's allowance as a fraction of the total allowance of Amy and Cai Fang.

		1 1	ŀ
		1 1	- 1
		1 1	ŀ
Ans:		- 1 1	- [

In the diagram below, the length of DE is twice the length of EA. G is the mid-point of AB and AE = AG. EFG and DCH are isosceles triangles. The area of ABCD is 72 cm². What is the area of the shaded region?



Ans:	cm²		
		•	

6

(Go on to the next page)

29	Ahmad boarded the Jungle Train at the Woodlands Train Station in Singapore at 5.30 a.m. for Kota Bahru in Malaysia. He arrived in Kota Bahru at 19 25. How long was the train ride?	Do not write in this space
30	Ans:h min  The table below shows the rate of charges for each overdue DVD	
	borrowed from a library.	
	For the first 5 days 50 cents per day After 5 days 70 cents per day	
	Mei Li borrowed two DVDs from the library. The two DVDs were overdue when she returned it. She paid a total of \$7.80 in overdue fines. How many days were the two DVDs overdue?	
-		
٠		
	Ans:	
	END OF PAPER	
	7	

## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# PRIMARY 6 PRELIMINARY EXAMINATION 2013 MATHEMATICS

#### PAPER 2

Duration: 1 h 40 min

### **INSTRUCTIONS TO CANDIDATES**

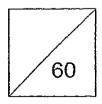
Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name:_		(	)
Class:	Primary 6		
Date:	26 August 2013		



This booklet consists of 15 printed pages.

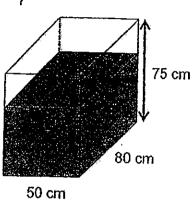
ans	wers in the spaces provided. For questions which require units, give your wers in the units stated.  (10 marks)	Do not write in this space
1	Yan Ning has \$22 worth of coins. She has 16 more fifty-cent coins than twenty-cent coins. Find the total value of her twenty-cent coins.	
	Ans: \$	
!	The average height of 2 girls is 1.24 m and the average height of another 3 girls is 1.54 m. What is the average height of all the 5 girls?	
	Ans: m	

3	In the diagram below, EF is parallel to GH and JF and KE are straight lines. Find $\angle$ KGH.	Do not write in this space
	J _K	·
	145°()	
	G H	
	68°	
	E	
•	Ans:°	I
4	During the Great Singapore Sale, a store gave a storewide discount of 20%. Mrs Heng who is a member of the store was entitled to an additional 10% discount on the discounted price. What was the total discount	
	Mrs Heng enjoyed?	
		-
	,	
•		
	Ans: %	
	3 (Go on to the next pa	ge)

Two tanks are shown below. Tank A is filled with water to two-thirds of its height. All the water in Tank A is then poured into a cylindrical tank, Tank B, which has a circular base of radius 28 cm. What is height of the water

Do not write in this space

level in Tank B? Give your answer correct to 1 decimal place. (Take  $\pi = \frac{22}{7}$ )



Tank B

Tank A

Ans:	cn

4

For Questions 6 to 18, show your working clearly and write your	answers in the
spaces provided. The number of marks available is shown in bi	rackets [ ] at the
end of each question or part-question.	(50 marks)

Do not write in this space

6 6	Fordon's age is $\frac{3}{7}$	of Thomas.	In 18 years' time,	Gordon's	age will be
-----	-------------------------------	------------	--------------------	----------	-------------

$$\frac{3}{5}$$
 of Thomas. How old will Thomas be then?

		ii	
ne.	[3]	ll	

7 A wire is bent to form a circle of radius 35 cm. Another wire, of the same length, is bent to form of a square. What is the area of the square?

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

Ans: [3]

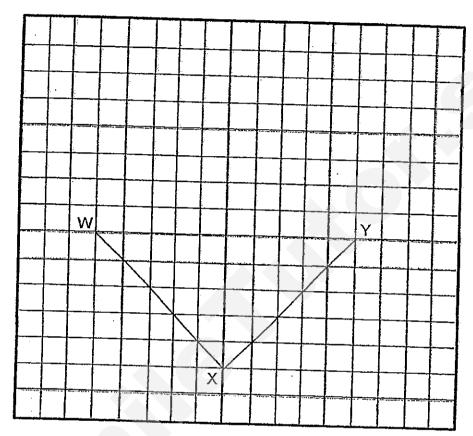
5

In the grid below, two sides of a rhombus, WXYZ, have been drawn. 8

(a) Complete the drawing of the rhombus. Label the point Z.

[2]

(b) Measure ∠XYZ.



Ans: (b) _____[1]

6

9	A robot can type 340 words every 5 minutes.  At this rate, how long will it take the robot to complete typing 5780 words?  Express your answer in hour and minutes.	Do not write in this space
٠.		
-		
	Ans:[3]	
10	Ben is 15 years old. Cathy is <i>p</i> years older than Ben and two times as old as Daniel. What is the average age of Ben, Cathy and Daniel?	
		,
	Ans:[3]	
	7 (Go on to the next nag	
	7 (Go on to the next pag	e)

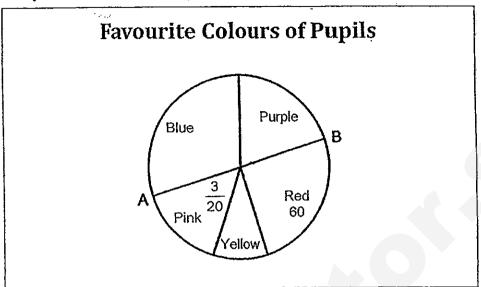
- Zoe spent  $\frac{2}{7}$  of her money on a book and  $\frac{1}{3}$  of the remainder on a pair of 11 shoes. She spent the remaining \$49 on food.
  - (a) What fraction of her money did she spend on the pair of shoes?(b) How much money did Zoe have at first?

Ans:	(a)	[1]	
	(b)	[3]	

8

The pie chart shows the favourite colours of the Primary 6 pupils in Sophia Primary School. AB is a straight line.

Do not write in this space

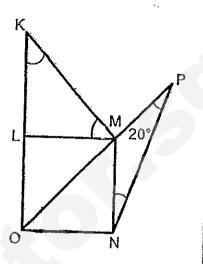


- (a) How many pupils are there in Primary 6?
- (b) There are twice as many pupils who like purple than yellow. What percentage of the Primary 6 pupils like purple?
- (c) How many pupils like blue?

Ans:	(a)	. [1]	
	(b)	[2]	
	(c)	[1]	<u> </u>
	(Go on to the nex	t pag	e)

- In the diagram below, KM = MO. LMNO is a square and KLM is a right-angled triangle.
- Do not write in this space

- (a) Find ∠ KMO.
- (b) Find  $\angle$  MNP.



Ans: (a) [1] [5]

10

15 Farmer Brown had a total of 632 chickens and ducks. After he bought another 54 chickens and sold 12.5% of the ducks, the ratio of the number of chickens to the number of ducks was 6:7 respectively.

(a) How many chickens were there at first?

(b) Express the number of chickens as a fraction of the number of ducks at first.

Ans:	(a)	[2]	
	(b)	[2]	Ĺ <u>.,                                    </u>

12

Both Fang Ling and Shanti collect stickers. If Fang Ling used 12 stickers, 16 Do not write Shanti would have half as many stickers as her. If Shanti used 18 stickers, in this space Fang Ling would have 5 times as many stickers as her. How many stickers did they have altogether?

Ans:__

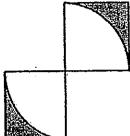
13

(Go on to the next page)

[5]

The picture below is made up of 2 similar squares and 2 similar quadrants. The area of one square is 64 cm².

Do not write in this space



- (a) Find the area of the shaded region.
- (b) Find the perimeter of the unshaded region. (Take  $\pi = 3.14$ )

Ans: (a) _	[3]	
(b)	[2]	

14

18	She re	were 3 boxes, X, Y and Z, containing 172 fruits altogether. Mrs Teo some fruits into Box X and the number of fruits in Box X doubted. moved $\frac{2}{3}$ of the number of fruits from Box Y and added another is into Box Z. In the end, the number of fruits in Box X, Y and Z are in in of 6:3:4 respectively.
	(a)	How many fruits were there in Box Y at first?

Do not write in this space

(8	ı)	How many	fruits	were	there in	Box	Υ	at first	?

	· · · · · · ·		
(h)	What is the ratio a	formation of the transfer of the second	
(b)	TYMALIS LIKE TALLO C	of number of fruits in Box Z to the total number	~f
• •		transport of fractor it box 2 to the local liftlibe!	OL
	fruits at first?		
	nuis ai ilisi <i>r</i>		

Ans: (a)	[3]	Γ
(b)	[2]	
•		

**END OF PAPER** 



## MSWER SHEET

**EXAM PAPER 2013** 

SCHOOL: MGS

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : PRELIM

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

16)3049

17)131/3

18)300.655

19)175ml

20)57kg

21)84 cm

22)380 %

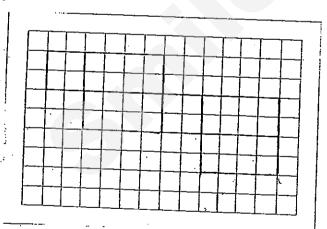
23)10:7

24)Point C

25)

26)16,24,32,48

27)8/9



28)18 cm₂

29)13 h 55 min

30)7 days

Page 1 to 5

page 1

## Paper 2 1)16 x 5

$$1)16 \times 50 = 800$$

$$$22 = 2200c$$

$$2200 - 800 = 1400$$

$$50 + 20 = 70$$

$$1400 \div 70 = 20$$

$$20 \times 20 = 400$$

$$400c = $4$$

$$2)1.24 \times 2 = 2.48$$

$$1.54 \times 3 = 4.62$$

$$4.62 + 2.48 = 7.1$$

$$3 + 2 = 5$$

$$7.1 \div 5 = 1.42$$

The average height is 1.42 m

$$3)180 - 145 = 35 (\angle GAH)$$

$$\angle$$
JHG =  $\angle$ JFE = 68°

$$180 - 35 - 68 = 77^{\circ}$$

$$4)100 - 20 = 80$$

$$100 - 10 = 90$$

$$90/100 \times 80 = 72$$

$$100 - 72 = 28 \%$$

$$5)(75 \div 3) \times 2 = 50 (2/3 \text{ height A})$$

$$50 \times 80 \times 50 = 200000$$

$$22/7 \times 28 \times 28 = 2464$$

$$6)10 - 7 = 3$$

$$18 \div 3 = 6$$

$$6 \times 10 = 60 \text{ years old}$$

$$7)35 \times 2 = 70$$
 (diameter)

$$22/7 \times 70 = 220$$

$$220 \div 4 = 55$$

$$55 \times 55 = 3025 \text{cm}_2$$

9)1 robot→340 words→5 min 1 robot→5780 words→85 min

$$\frac{5780 \times 5}{340} = 85$$

85min = 1h 25 min

10)12.5 + 0.5p years old

She spent 5/21 of the money on the shoes.

12)a)60  $\times$  4 = 240 There are 240 pupils in Primary 6.

The average speed is 731/23km/h

The Citato Life and the Citato

17)a
$$\sqrt{64}$$
 =8  
0.25 x 3.14 x 8 x 8 = 50.24  
8 x 8 = 64  
64 - 50.24 = 13.76  
13.76 x 2 = 27.52  
The area is 27.52cm₂

18)a)3 x 3 = 9  

$$6 \div 2 = 3$$
  
 $172 + 20 = 192$   
 $192 \div (3+9+4) = 12$   
 $12 \times 9 = 108$ 

There were 108 fruits.