## 2019 Primary 6 Math

1.	Henry Park	SA1
2.	Maha Bodhi	SA1
3.	MGS	SA1
4.	Nan Hua	SA1
5.	Nanyang	SA1
6.	Raffles	SA1
7.	River Valley	SA1
8.	Rosyth	SA1
9.	SCGS	SA1
10.	Tao Nan	SA1
11.	ACS	SA2
12.	Ai Tong	SA2
13.	Henry Park	SA2
14.	Maha Bodhi	SA2
15.	MGS	SA2
16.	Nan Hua	SA2
17.	Nanyang	SA2
18.	Raffles	SA2
19.	River Valley	SA2
20.	Rosyth	SA2

21.	SCGS	SA2
22.	St Nicholas	SA2
23.	Tao Nan	SA2





## HENRY PARK PRIMARY SCHOOL 2019 SA1 MATHEMATICS PRIMARY 6

## PAPER 1 (BOOKLET A)

Name:	(	)	Parent's Signature
Class: Primary 6/ 6M_			

# Marks: | Paper 1 | Booklet A | 20 | | Booklet B | 25 | | Paper 2 | 55 | | Total | 100 |

Total Time for Booklets A and B: 1 hour

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.
You are not allowed to use a calculator.

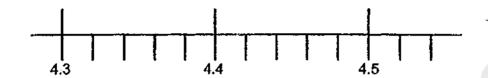
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(20 marks)

- 1 What is the value of 10 + 400?
  - (1) 0.25
  - (2) 0.025
  - (3) 40
  - (4) 4
- 2 Arrange the following fractions from the smallest to the greatest

	<u>smallest</u>		greatest
(1)	6 5'	$\frac{7}{6}$	1 1 4
(2)	$\frac{7}{6}$	$\frac{6}{5}$	1 1/4
(3)	76	1 1 4,	<del>6</del> <del>5</del>
(4)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\frac{7}{6}$	6

3 In the scale below, what is the value of the reading at X?



- (1) 4.52
- (2) 4.54
- (3) 4.7
- (4) 4.9
- 4 Find the value of 14 2 × 4 + 20 + 4
  - (1) 11
  - (2) 17
  - (3) 53
  - (4) 72
- There is a total of 60 red and green beans in a container. 36 of them are red beans. What is the ratio of the number of green beads to the number of red beads in the container?
  - (1) 2:3
  - (2) 2:5
  - (3) 3:2
  - (4) 3:5

6 The opening hours of Siti's Cafe are shown below.

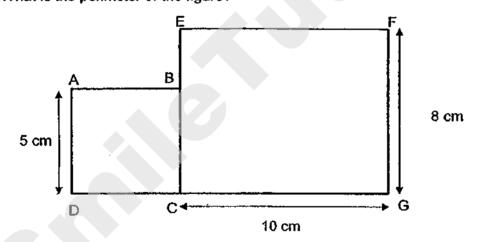
How long is the cafe open each day?

- (1) 8 h 15 min
- (2) 8 h 45 min
- (3) 9 h 15 min
- (4) 9 h 45 min

Siti's Cafe Opening Hours

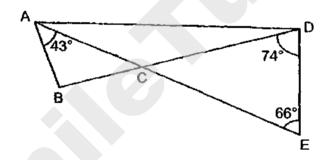
9 a.m. to 2.00 p.m. 5.45 p.m. to 10.00 p.m.

7 The figure below is made up of square ABCD and rectangle EFGC.
What is the perimeter of the figure?



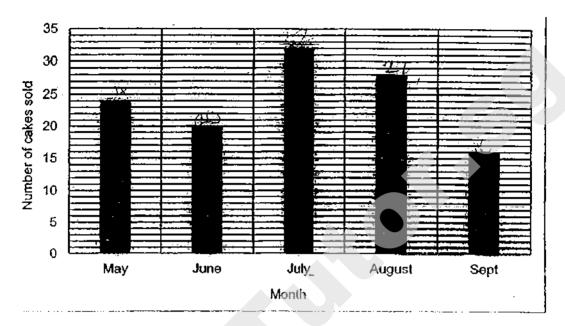
- (1) 43 cm
- (2) 46 cm
- (3) 51 cm
- (4) 105 cm

- A solid cuboid of height 7 cm has a square base of side 5 cm. What is its volume?
  - (1) 25 cm<sup>3</sup>
  - (2) 35 cm<sup>3</sup>
  - (3) 175 cm<sup>3</sup>
  - (4) 245 cm<sup>3</sup>
- 9 In the figure, ACE and BCD are straight lines. Find ∠ABC.



- (1) 40°
- (2) 74°
- (3) 94°
- (4) 97°

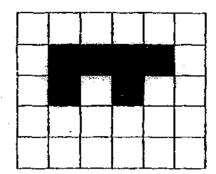
10 The graph below shows the number of cakes sold in each month from May to September.



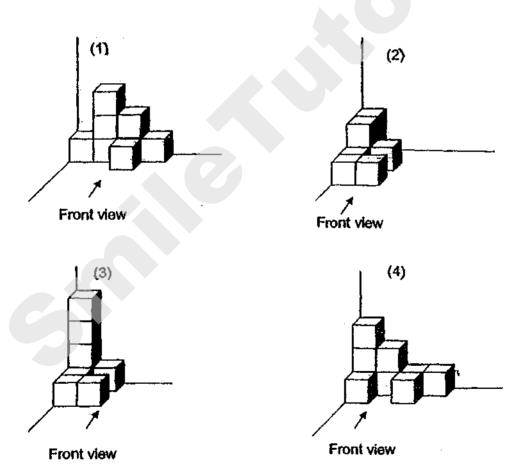
What is the average number of cakes sold in each month from May to September?

- (1) 16
- (2) 20
- (3) 24
- (4) 40

11 The top view of a solid is drawn in a square grid.



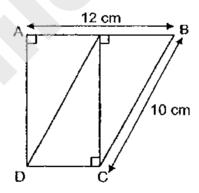
Which of the following is the solid with the top view drawn above?



Janelle used stickers of four different shapes to make a pattern. The first 15 stickers are shown below. What was the shape of the 100th sticker?

O	2 @	?
1st	15 <sup>th</sup>	100 <sup>th</sup>

- (1) 😃
- (2)
- (3) 🗱
- (4) ♡
- Dave has three identical right-angled triangles. He joined them to form the figure ABCD shown below. The area of figure ABCD is 72 cm².
   AB = 12 cm and BC is 10 cm. Find the perimeter of the figure ABCD.



- (1) 34 cm
- (2) 36 cm
- (3) 38 cm
- (4) 40 cm

14 In a chess competition, a player has to play three games in Round 1.
If the average score in Round 1 is at least 35, the player will be able to move on to Round 2.

The table below shows Lydia's scores for the two games she played in Round 1.

nd 1
Score
32
28
?

What is the lowest score she must get in the 3<sup>rd</sup> game of Round 1 in order to move on to Round 21

- (1) 34
- (2) 45
- (3) 60
- (4) 70

- Isaac used  $\frac{3}{5}$  of his money to buy 6 spring rolls and 8 chicken wings.

  The cost of 3 spring rolls was the same as the cost of 2 chicken wings.

  What is the most number of such spring rolls he could buy with  $\frac{1}{4}$  of his remaining money?
  - (1) 8
  - (2) 2
  - (3) 3
  - (4) 12

(Go on to Booklet B)



## HENRY PARK PRIMARY SCHOOL 2019 SA1 MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name:( )	
Class: Primary 6/ 6M	25

Total Time for Booklets A and B: 1 hour

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

Follow all Instructions carefully.

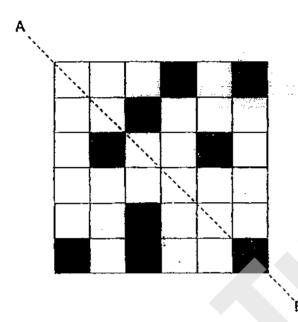
Answer all questions.

Write your answers in this booklet.

You are not allowed to use a calculator.

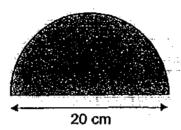
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.  For questions which require units, give your answers in the units stated.		
	(5 marks)	
16	Express 8.08 as a mixed number in the simplest form.	
	Ans:	
17	Use all the digits 1, 8, 4 and 5 to form the whole number closest to 5000.	
		-
	Ans: ,	

The figure below shows some shaded squares. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.



Helen played on her piano from 11.45 a.m to 1.25 p.m. How long did she play on her piano? Give your answer in minutes.

Ans: \_\_\_\_\_\_min



Ans: \_\_\_\_\_cm<sup>2</sup>

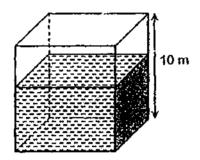
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(20 marks)

21 The figure shows a cubical tank which is  $\frac{3}{5}$ -filled with water.

What is the volume of water needed to fill up the tank to the brim?



Ans:	3
THE STATE OF	m <sub>3</sub>

22 Jerome had 51 stickers and Cayden had 37 stickers.

After both boys used the same number of stickers, the number of stickers Jerome and Cayden had were in the ratio 5; 3.

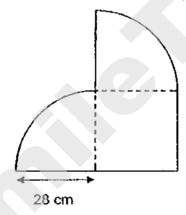
How many stickers did Cayden have in the end?

23 Rebecca had 4 times as many apples as pears at first. She gave away
16 apples and bought 15 pears. In the end, she had 8 more apples than pears.
How many pears did she have at first?

Do not write in this space

Ans:

The figure below is made up of a square and two quarter circles. Find the perimeter of the figure. (Take  $\pi = \frac{22}{7}$ )



Ans: \_\_\_\_ cm

David, Leon and Felix had some stickers. After David gave  $\frac{3}{8}$  of his stickers to Leon and  $\frac{3}{10}$  of his remaining stickers to Felix, all three boys had the same number of stickers in the end. What was the ratio of the number of stickers Leon had at first to the number of stickers Felix had at first?

Do not write In this space

Ans:

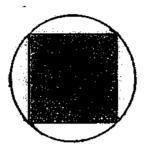
A piece of rope measuring 10.7 m in length was cut into three pieces.

The first piece was 1.2 m longer than the second piece. The first piece was three times as long as the third piece. What was the length of the shortest piece in metres?

Ans: \_\_\_\_\_ m

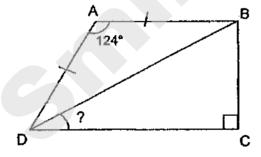
27 The diameter of the circle shown below is 16 cm. Find the area of the shaded square.

Do not write In this space



Ans: \_\_\_\_\_cm²

28 ABCD is a trapezium. AD = AB and  $\angle$ DAB = 124°. Find  $\angle$ BDC.



Ans:

29	An Xin baked a cake and gave $\frac{1}{5}$ of it to her friend. She cut the remaining
	cake equally into 12 slices. What fraction of the whole cake was each
	sfice? Express your answer in the simplest form.
	Ans:
-	
30	A publisher sold 1000 magazines in March. The number of
	magazines sold in April was a 20% increase from what was sold in
	March. The number of magazines sold in May was a 30% decrease
	from what was sold in April. How many magazines did the publisher
	sell in May?

End of Paper 1

Ans:

Do not write in this space



## HENRY PARK PRIMARY SCHOOL 2019 SA1 MATHEMATICS PRIMARY 6

## PAPER 2

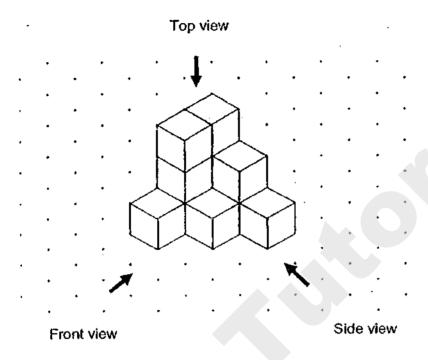
Class; Primary 6/ 6M	55
Time for Paper 2: 1 h 30 min	
Do not turn over this page until you are told to do so.	
Follow all instructions carefully.	
Answer all questions.	
Show your working clearly as marks are awarded for correct wo	orking.
Write your answers in this booklet.	
You are allowed to use a calculator.	

Name:

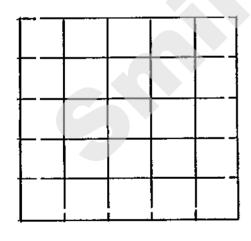
an	restions 1 to 5 carry 2 marks each. Show your working clearly and write your swers in the spaces provided. For questions which require units, give your answers the units stated.  (10 marks)	Do no write in this space
1	Dylan has a number of red green and blue balloons $\frac{5}{12}$ of the balloons are red.	
	There are twice as many red balloons as green balloons. What fraction of the	
	balloons is blue? Express your answer in the simplest form.	
		į
	Ans:	

2 The solid below was made up of 11 unit cubes.

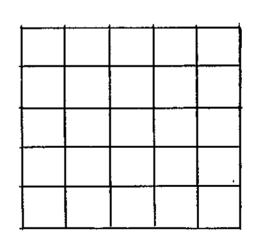
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Draw the front view and the side view of the solid in the square grids below.



Front view

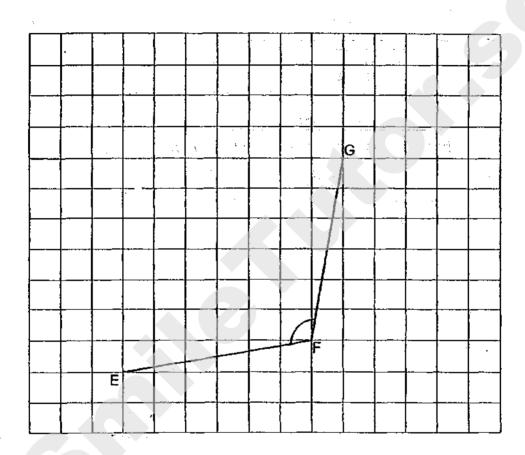


Side view

- 3 In the square grid below, EF and FG are straight lines.
  - (a) Measure and write down the size of ∠EFG.
  - (b) EF and FG form two sides of a rhombus EFGH.

    Complete the drawing of rhombus EFGH in the square grid.

Do not write in this space



Ans: (a)\_\_\_\_\_

4 A number of students took part in a race. The table shows the number of students with the time taken to complete the race.

Do not write in this space

Time taken to complete the race	Number of students
More than 14 seconds	4
13.1 to 13.9 seconds	9
12.3 to 13 seconds	12
11.6 to 12.2 seconds	8
11 to 11.5 seconds	5
Less than 11 seconds	2

Prizes were given to  $\frac{3}{8}$  of the students who completed the race faster than the rest. Ann was one of the prize winners. What was the longest time she could have taken to complete the race?

Ans: \_\_\_\_\_seconds

5 At first, Jareth had 80 marbles and some erasers. After he gave away 12 marbles and 25% of his erasers, he had a total of 128 marbles and erasers left. How many erasers did Jareth give away?

Ans: \_\_\_\_\_

For questions 6 to 17, 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 and part-question.

(45 marks)

Do not write in this space

6 Christopher had \$96 more than Hong Wei at first. Hong Wei then gave Christopher \$36. In the end, Christopher had 4 times as much money as Hong Wei. How much money did Christopher have at first?

Ans:\_\_\_\_\_[3]

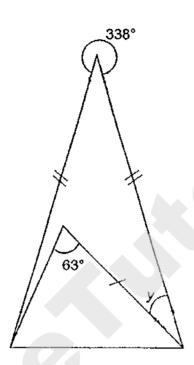
7 60% of the Chess Club members are girls.  $\frac{4}{5}$  of the girls and  $\frac{3}{4}$  of the boys wear spectacles. What percentage of the Chess Club members wear spectacles?

Do not write in this space

Ans:			[3]

8 The figure below is made up of two isosceles triangles. Find ∠y

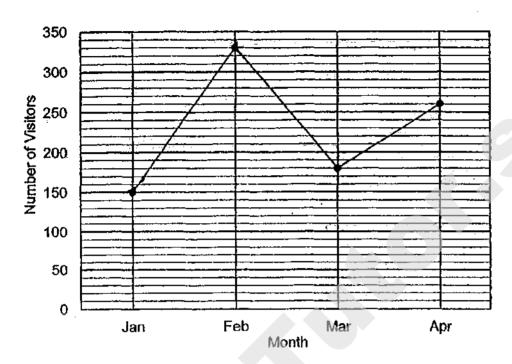
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Ans: \_\_\_\_\_\_\_ [3]

9 The graph below shows the number of visitors at a museum from January to April.





- (a) How many more visitors went to the museum in February than in March?
- (b) What was the percentage increase in the number of visitors at the museum in April compared to January?(Round your answer to one decimal place)

Ans: (a)\_\_\_\_\_[1]

Jiajia had (19a + 3) stamps. Kathy had 8a fewer stamps than Jiajia.
Bernice had (3a - 2) more stamps than Kathy Given that the three girls had a total of 1151 stamps, how many stamps did Jia Jia have?

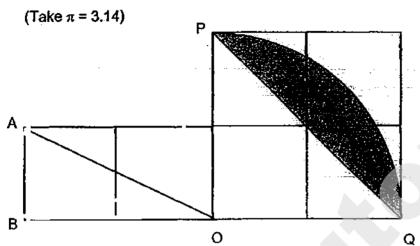
Do not write in this space

Ans: [4]

11	Eydin has two strips of stickers, A and B, of equal length. The length of each sticker is 1.2 cm. The stickers in each strip form a repeated pattern as shown below.	Do not write in this space
Strip A		
Strip B	★ ♥ © © ★ ♥ © ©	
	There are 56 heart stickers ( ) altogether in both strips of stickers.	
	What is the length of each strip of stickers?	1
	Ans:[3]	

12 The figure shows 6 identical squares. The area of each square is 169 cm².
The outline of the shaded parts of the figure is formed by a quarter circle and straight lines. Find the area of the shaded parts.

Do not write in this space



13 Kenji wants to buy a bicycle. The table shows the prices of the bicycle from two different shops.

Shop A		Shop B		
Original Price	% Discount	Original Price	% Discount	
\$ 1040	30%	\$1175	35%	

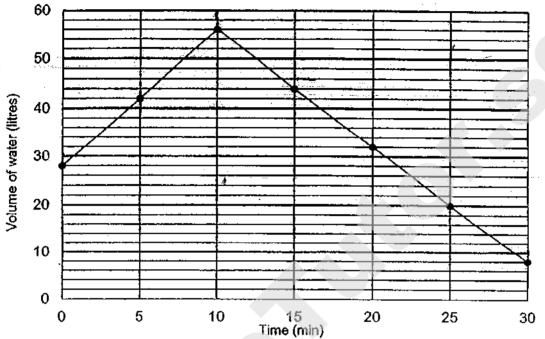
Do not write in this space

- (a) What is the difference in the discounted price between the two shops?
- (b) GST is 7% of the discounted price of the bicycle. How much does Kenji have to pay for the bicycle in Shop A including GST?

Ans: (a)	<del></del>	
(p)		[2}

A rectangular tank, with a capacity of 60 litres, was partly filled with water at first. Tap A was turned on to add more water into the tank. After 10 minutes, Tap A was turned off and Tap B was turned on to drain water out of the tank until the 30<sup>th</sup> minute. The line graph shows the volume of water in the tank over the period of 30 minutes.

Do not write in this space



(a) How many litres of water flowed into the tank in 1 min when Tap A was turned on?

Ans:	[2]
	 1~.

(b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (√) in the correct column.

Statement	True	False	Not possible to tell
At the 15 <sup>th</sup> minute, there was 45 litres of water in the tank.			
From the 10 <sup>th</sup> minute until the 30 <sup>th</sup> minute, water was draining at 2.4 litres per minute.			
If both Tap A and Tap B were turned on at the 30 <sup>th</sup> minute, the volume of water in the tank will remain the same.			

15 Marika baked a total of 945 chocolate and vanilla buns. After selling an equal number of both types of buns, she had  $\frac{1}{3}$  of the chocolate buns and  $\frac{1}{6}$  of the vanilla buns left. She packed the remaining chocolate buns into 23 boxes. Some boxes contained 5 chocolate buns while the rest centained 9 chocolate buns.

Do not write in this space

- (a) How many chocolate buns were packed into the 23 boxes?
- (b) How many boxes contained 9 chocolate buns?

Ans: (a)	_[3]_

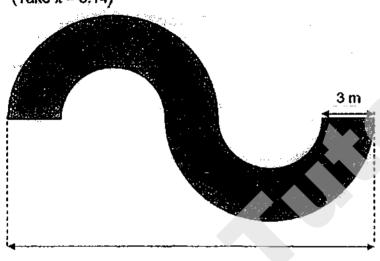
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The figure below shows a 3 m wide flower garden. The outline of the flower garden is formed using 2 identical large semicircles, 2 identical small semicircles and 2 straight lines.

Do not write in this space

- (a) Find the perimeter of the flower garden.
- (b) Find the area of the flower garden.

(Take  $\pi = 3.14$ )



28 m

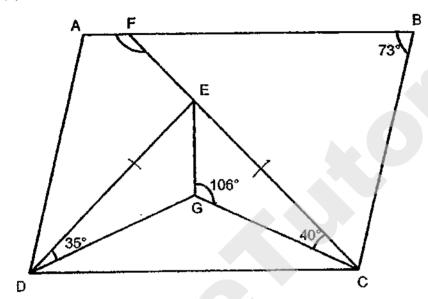
Ans: (a)	
(b)	

(Go on to the next page

17 In the figure, ABCD is a parallelogram. Triangles DEG, ECG and DGC make up the equilateral triangle DEC. ∠EDG = 35°, ∠ECG = 40° and ∠EGC = 106°.

FEC is a straight line and ∠ABC = 73°

- (a) Find ∠AFE
- (b) Find ∠DGE



Ans: (a) [2]

End of Paper 2

Setters: Mrs Elaine Chua, Mr Jenfry Tseng, Mrs Ling Lee Ching

\_[3]

Do not write in

this space SCHOOL : HENRY PARK PRIMARY SCHOOL

LEVEL PRIMARY 6

SUBJECT: MATH TERM : 2019 SA1

### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7		Q9	Q10
2	2	2	1	1	3	2	3	4	3

Q 11	Q12	Q13	Q14	Q15	
4	1	2	2	3	

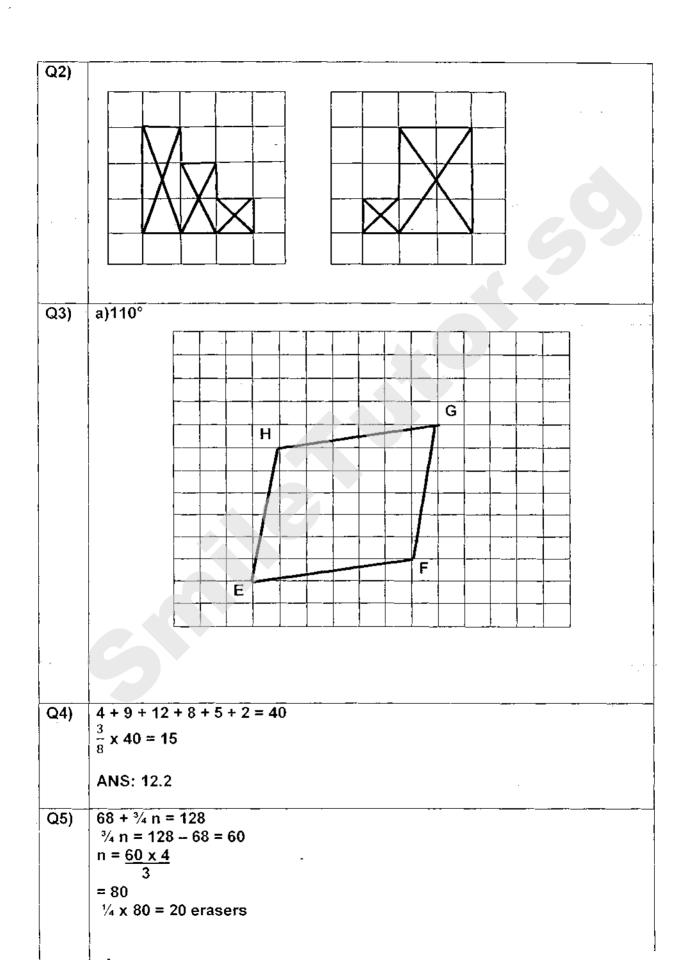
#### PAPER 1 BOOKLET B

Q16)	$8\frac{2}{25}$
Q17)	5148
Q18)	A `
	В
Q19)	11.45am to 1.25pm = 1h 40min = 100 min
Q20)	$\frac{1}{2} \times 3.14 \times 10^2 = \frac{1}{2} \times 3.14 \times 100$
	$= 31.4 \times 5 = 157 \text{cm}^2$
Q21)	10m x 10m x 10m = 1000m <sup>3</sup>
	$\frac{2}{5} \times 1000 \text{m}^3 = 400 \text{m}^3$ Need a home tutor? Visit smiletutor so

Q22)	21
Q23)	16 + 15 + 8 = 39
	39 ÷ 3 = 13pears
Q24)	$\frac{1}{2} \times \frac{22}{7} \times 56 = 88$
	28 x 4 = 112
	112 + 88 = 200 cm
	1.2 1.00 1.00 1.00
Q25)	1:4
Q26)	10.7 - 1.6m = 9.1m
	9.1m ÷ $\frac{7}{3}$ = 9.1 × $\frac{3}{7}$ = 3.9
	$\frac{1}{3}$ x 3.9 = 1.3
	1.3 + 0.4 = 1.7 m
Q27)	2 x ½ x 16 x 8 = 128 cm <sup>2</sup>
Q28)	180° – 124° = 56°
	56° ÷ 2 = 28°
	90° – 28° = 62°
	180° - 90° - 62° = 28°
Q29)	3 x 5 = 15
	$=\frac{1}{15}$
	15
Q30)	March→1000
	April $\rightarrow \frac{120}{100} \times 1000 = 1200$
	May $\to \frac{70}{100}$ x 1200 = 840magazines

### PAPER 2

Q1) 
$$\frac{9}{24} = \frac{3}{8}$$



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Q6)	U + 132 = 4u - \$144
	\$132 + \$144 = 4u - u
	\$276 = 3u
	$U = $276 \div 3 = $92$
	\$92 + \$96 =\$188
Q7)	48% + 30% = 78%
Q8)	360° - 338° = 22°
,	$(180^{\circ} - 22^{\circ}) \div 2 = 79^{\circ}$
	$180^{\circ} - 63^{\circ} - 63^{\circ} = 54^{\circ}$
	79° – 54° - 25°
Q9)	a)330 – 180 = 150 visitors
	b)260 - 150 = 110
	$\frac{110}{150}$ x 100% $\approx$ 73.3%
	150 ~ 100 % ~ 10.0 %
Q10)	Jia→19a+3
·	Kathy→11a+3
	B-→14a+1
	19a + 11a + 14a + 7 = 1151
	44a = 1151 - 7 = 1144
	$a = \frac{1144}{44} = 26$
	19a = 26 x 19 = 494
	494 + 3 = 497stamp
	·
Q11)	Given that there are 56
	Stickers B = 56 ÷ 7 = 8
	Length of the strip of stickers = 8x12x1.2=115.2cm
Q12)	Area of triangle = ½ x 26 x 26 = 338
	Area of quarter circle = 1/4 x 3.14 x 26 = 530.66
	Area of square = 26 x 26 = 676
	Area of A = 676 – 530.66 = 145.34
	Area of B = 676 – 338 – 145.34 = 192.66
	Area of C = ½ x 26 x 13 = 169
	192.66 + 169 = 361.66cm <sup>2</sup>
042)	70
Q13)	a)Shop A $\rightarrow \frac{70}{100}$ x 1040 = 728
	Shop B $\Rightarrow \frac{65}{100}$ x 1175 = 763.75
	<b>763.75 – 728 = \$35.75</b> Need a home tutor? Visit smiletutor!

	$b)\frac{107}{100} \times 728 = $778.96$
Q14)	a)56 - 28 = 28
	$\frac{28}{10} = 2.8L$
	b)
Q15)	a)7.5p + 6p = 13.5p 13.5p = 945
	$P = \frac{945}{13.5} = 70$
	$70 \times 2.5 = 175$
	b)23 x 5 = 115
İ	175 – 115 = 60
	$\frac{60}{4}$ = 15 (9 boxes)
]	23 - 15 = 8 (3 boxes)
	ANS: 15 boxes
Q16)	a)28 - 3 - 3 - 3 = 19
	19 ÷ 2 = 9.5
	$3.14 \times 9.5 = 29.83$
•	29.83 + 48.67 + 3 + 3 = 84.5m b)3.14 x 7.75 <sup>2</sup> = 188.59625
	$3.14 \times 4.75^2 = 70.84625$
	188.59625 – 70.84625 = 117.75m <sup>2</sup>
Q17)	a)60° – 40° = 20°
	180° - 40° - 20° = 120°
	b)60° - 35° = 25° 180° - 25° - 20° = 135°
	360° – 135° – 106° = 119°





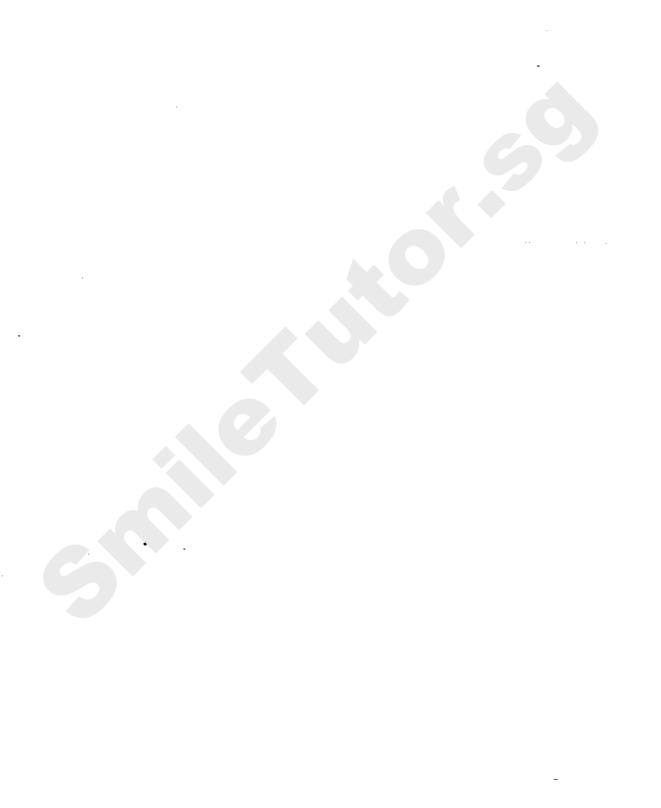
# Maha Bodhi School 2019 Semestral Assessment 1 Primary 6 Mathematics Paper 1 (Booklet A)

Name :(	)
Class : Primary 6	
Date: 15 May 2019	
Total duration for Booklets A and B: 1	hour

#### **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.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

This booklet consists of 6 printed pages.

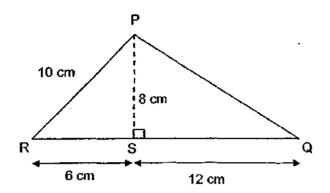


Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(20 marks)

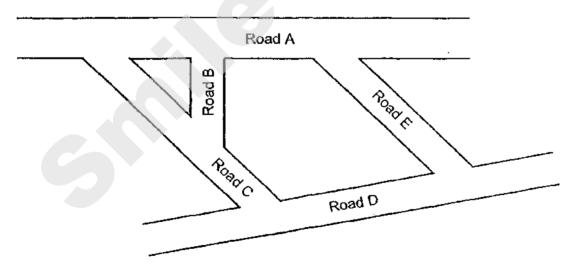
- 1. Round 819 962 to the nearest thousand.
  - (1) 800 000
  - (2) 810 000
  - (3) 819 000
  - (4) 820 000
- 2. Which one of the following fractions is smaller than  $\frac{1}{2}$ ?
  - (1)  $\frac{5}{8}$
  - (2)  $\frac{2}{3}$
  - (3)  $\frac{3}{4}$
  - (4)  $\frac{4}{9}$
- 3. Express 308 cm in metres.
  - (1) 0.308 m
  - (2) 3.08 m
  - (3) 3.8 m
  - (4) 30.8 m

4. In the figure below, RSQ is a straight line. What is the area of triangle PRS?



- (1) 24 cm<sup>2</sup>
- (2) 30 cm<sup>2</sup>
- (3) 48 cm<sup>2</sup>
- (4) 72 cm<sup>2</sup>

5. The figure shows some roads on a map.

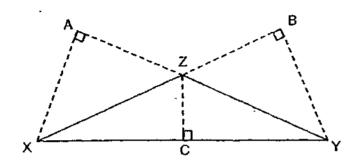


Which two roads are perpendicular to each other?

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

- 6. For every 5 chocolate muffins Joe baked, he also baked 7 strawberry muffins. He baked 210 chocolate muffins. How many strawberry muffins did he bake?
  - (1) 30
  - (2) 42
  - (3) 212
  - (4) 294
- 7. Express  $2\frac{1}{2}$  % as a decimal.
  - (1) 0.025
  - (2) 0.25
  - (3) 2.5
  - (4) 25
- 8. Sally bought 3 durians that cost \$36, \$23 and \$19. What was the average price she paid for a durian?
  - (1) \$23
  - (2) \$26
  - (3) \$39
  - (4) \$78

9. Which of the following shows the correct base and its corresponding height of triangle XYZ?



	Base	Corresponding height		
(1)	YZ	CZ		
(2)	вх	BY		
(3)	CY	CZ		
(4)	ΥZ	AX		

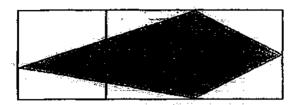
- 10. Gavin travelled a journey of 240 km. He drove at an average speed of 60 km/h for the first 1 hour. For the remaining journey, he drove at an average speed of 90 km/h. What was the total time taken for the journey?
  - (1) 5 h
  - (2) 2 h
  - (3) 3 h
  - (4) 4 h
- 11. Alex started jogging at 7.05 am. After jogging a distance of 900 m, it was 7.15 am. What was his average speed in m/min?
  - (1) 45 m/min
  - (2) 60 m/min
  - (3) 90 m/min
  - (4) 180 m/min

- 12. Zann cut a ribbon of length 1.44 m into 3 pieces. The first piece was 3 times as long as the second piece. The second piece was 2 times as long as the third piece. How long was the first piece?
  - (1) 0.16 m
  - (2) 0.48 m
  - (3) 0.72 m
  - (4) 0.96 m
- 13. John has some red and blue marbles. The ratio of the number of red marbles to the number of blue marbles is 5:2. He gives  $\frac{3}{4}$  of his red marbles away. What will be the new ratio of the number of red marbles to the total number of marbles he has in the end?
  - (1) 5:8
  - (2) 5:13
  - (3) 15:8
  - (4) 15:23
- 14. Bella worked as a cashier at a supermarket. She is paid according to the rates as shown below. She worked from 10 am to 9.30 pm. How much was she paid?

Working Hours	Rate
10 am to 8 pm	\$8 per hour
8 pm to 11 pm	\$12 per hour or part thereof

- (1) \$92
- (2) \$98
- (3) \$104
- (4) \$138

15. The figure below is made up of 3 identical squares. The area of the shaded part is 54 cm<sup>2</sup>. What is the length of one side of the square?



- (1) 6 cm
- (2) 9 cm
- (3) 18 cm
- (4) 36 cm

---- End of Booklet A ----



# Maha Bodhi School 2019 Semestral Assessment 1 Primary 6 Mathematics Paper 1 (Booklet B)

Name :	_(	)	Marks:	25
Class : Primary 6				23
Date: 15 May 2019				
Total Duration for Booklets A and B	: 1 hour			

### **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.
- 4. Write all your answers in this booklet.
- 5. The use of calculators is **NOT** allowed.

This booklet consists of 6 printed pages.

## Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16. How many common multiples of 2 and 7 are smaller than 30?

Ans:\_\_\_\_\_

17. Express  $6\frac{5}{8}$  as a decimal correct to 2 decimal places.

Ans:

18. In the scale below, what is the value of Y?



Ans:

/ 3

19.	The actual time Grace left her house to go to the library was 14 35. When she
	reached the library, she looked at her watch and the time shown was 15 10.
	Her watch was 10 minutes faster than the actual time. How long did Grace take to
	reach the library?

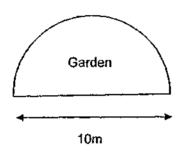
Ans:\_\_\_\_\_min

20. A machine can produce 8 ribbons in 5 seconds. How many ribbons can the same machine produce in 1 minute?

Ans: \_\_\_\_\_ ribbons

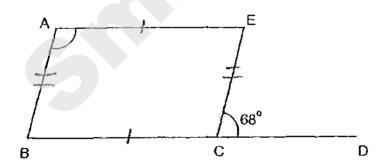
Questions 21 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21. The figure shows a garden in the shape of a semicircle with a diameter of 10 m. Mr Lee wants to put a fence around the garden. What is the length of the fence he needs? Leave your answer in terms of  $\pi$ .



Ans: m

The figure below shows a parallelogram ABCE.BCD is a straight line. Find ∠BAE.



Ans:\_\_\_\_\_\_o

23. Dan and Eileen received an average of \$138 each from their father. Dan received twice as much as Eileen. How much did Eileen receive?

Ans:	œ		
MI2.	₽		

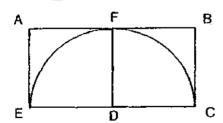
24. The table below shows the masses of a bag of rice and a packet of noodles.

Item	Mass (g)
Bag of Rice	4 <i>m</i>
Packet of Noodles	(m-3)

Express the total mass of 1 bag of rice and 1 packet of noodles in terms of m.

_	
Ans:	a

25. A semicircle is drawn inside a rectangle ABCE as shown below. The perimeter of rectangle ABCE is 42 cm. Find the area of the quadrant FDC. Take  $\pi = \frac{22}{7}$ .



Ans:	-	cm

Mrs Wang bought a dress at \$90 after she was given a 25% discount. Mrs Ramesh
bought the same dress at \$78 during another sale. What was the percentage discount
given to Mrs Ramesh if the original price remained the same?

Ans:		_	%
_			

27. Jim travelled from Town A to Town B in 5 hours. He travelled at an average speed of 70 km/h for the first 210 km. He then increased his speed by 10 km/h for the rest of the journey. What was the distance between Town A and Town B?

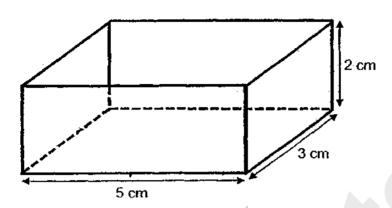


28.  $\frac{3}{5}$  of Gabriel's savings is equal to  $\frac{1}{3}$  of Bryan's savings. Bryan saves \$60 more than Gabriel. What is the total savings of both boys?



/ 6

29. The diagram below shows an open-top box. When it is fully packed with 1-cm cubes, how many cubes touch the inside of the box?



Ans:\_\_ \_\_\_\_ cubes

30. There are 15 boys in 6 Kindness. They scored an average of 72 marks in a Math test. The girls in the class scored an average of 79 marks. The average marks scored by the children in the class is 76. How many children are there in 6 Kindness?

Ans:\_\_\_\_\_\_



----- End of Booklet B -----

/ 4

Remember to check your work!



### Maha Bodhi School 2019 Semestral Assessment 1 Primary 6 Mathematics Paper 2

Name :(	)
Class : Primary 6	
Date : 15 May 2019	
Duration: 1 h 30 min	

### **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.
- 4. Write your answers in this booklet.
- 5. The use of an approved calculator is expected, where appropriate.

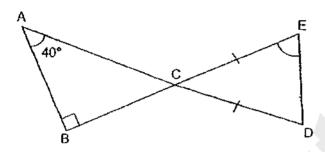
Paper	Booklet	Marks Obtained	Max Marks
	А		20
1	В		25
2	-		55
Total			100

Parent's signature:				

This booklet consists of 13 printed pages.

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)

 In the figure below, ABC is a right-angled triangle. ∠BAC = 40° and CE = CD. ACD and BCE are straight lines. Find ∠CED.



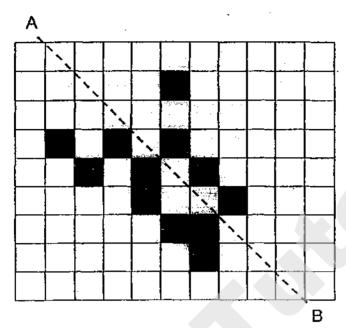
Ans:

2. Ryan placed some wooden blocks in a pattern. Part of the pattern is shown below.
There were 3 white blocks between every 2 black blocks. He used a total of 19 black blocks. How many white blocks did he use?



Ans: \_ \_ \_ \_ \_

3. What is the least number of additional squares that must be shaded so that the dotted line AB is a line of symmetry of the figure?



Ans: \_\_\_\_\_

4. The ratio of Anne's savings to Betty's savings was 5 : 3 at first. After Anne had spent \$112 and Betty had saved another \$80, they had an equal amount of savings each. How much savings did Anne have at first?

Ans: \$\_ \_\_\_\_

5. Lia had 40 sweets. She kept k sweets for herself and divided the rest equally among 6 friends. How many sweets did each friend receive when k = 4?

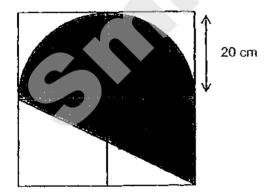
Ans: \_\_\_\_\_

For questions 6 to 17, 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. (45 marks)

6. Mrs Lim bought some glasses at \$8 each and some cups at \$4 each. For every 17 glasses she bought, she also bought 3 cups. She paid a total of \$9324. What is the total number of glasses Mrs Lim bought?

Ans:_	 [3]
_	 - L - J

7. The figure below is made up of 4 identical squares. Find the area of the shaded part of the figure. Take  $\pi = 3.14$ .

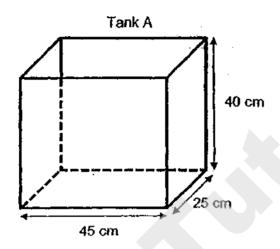


Ans:	<u>.</u>	[3
		/ 6

8. Jason and Michael had 128 marbles altogether. Jason gave away  $\frac{1}{4}$  of his marbles while Michael gave away 37 of his marbles. They had the same number of marbles in the end. How many marbles did Michael have at first?

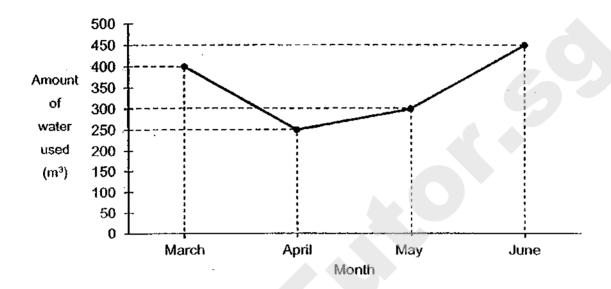
Ans:		[4]
------	--	-----

9.  $\frac{1}{4}$  of a container was filled with water at first. 18 000 ml of water was added to the container and it became  $\frac{5}{8}$  filled. All the water in the container was then poured into an empty Tank A as shown below.



- (a) How much water was poured into Tank A?
- (b) What fraction of Tank A was filled with water? Give your answer in the simplest form.

The line graph shows the amount of water used by a family from March to June.
The water used is charged at the rate of 85¢ per m³.



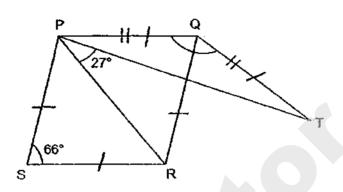
- (a) What was the average amount paid per month for the water used from March to June?
- (b) The average amount of water used from May to July is 400 m<sup>3</sup>. Find the amount of water used in July.

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

11. Joshua bought 30 notepads and 70 pens at \$130. He still had some money left. He would be short of \$0.80 if he were to buy another notepad. However, he would have \$0.70 left if he were to buy another pen. How much did each notepad cost?

Ans:\_\_\_\_\_[3]

12. In the figure, PQRS is a rhombus and PQT is an isosceles triangle. QP= QT,∠PSR = 66° and ∠TPR= 27°. Find ∠PQT.



Ans:\_\_\_\_\_[3]

/ 3

13. A van travels from Town P to Town Q in 8 h. A truck travels the same route in 11 h. The van travels at a speed which is 15 km/h faster than the truck. What is the speed of the van?

Ans:\_\_\_\_\_\_[3]

9

14. Eric had 192 more stickers than Leon at first. After Eric gave away 250 stickers and Leon bought another 168 stickers, Leon had 3 times as many stickers as Eric. What is the total number of stickers the two boys had at first?

Ans:(	4	İ
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15. Aaron, Bala and Caleb had some savings. Aaron saved 50% as much as the total amount saved by Bala and Caleb. Bala saved 75% as much as the total amount saved by Aaron and Caleb. Aaron saved \$7048 more than Caleb. How much did the 3 boys save altogether?

Ans: \_\_\_\_\_\_\_[4]

11

- 16. Spencer used the arc as shown in Figure A to design a swimming pool. The shaded part in Figure B shows the swimming pool that Spencer had designed.
  - (a) Find the perimeter of the swimming pool.
  - (b) Find area of the swimming pool.

Take  $\pi = 3.14$ 

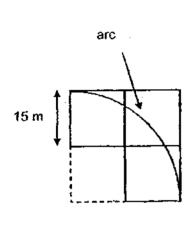


Figure A

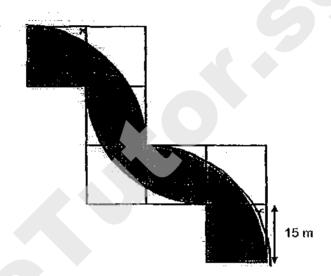


Figure B

(b) \_\_\_\_\_[3]

- 17. John only has cookies and Ben only has tarts at first. John gave half of his cookies to Ben. Ben gave half of his tarts to John. John then ate 14 tarts and Ben ate 16 cookies. After that, the ratio of the number of tarts to the number of cookies John had was 1:7 and the ratio of the number of tarts to the number of cookies Ben had was 1:4.
  - (a) How many tarts did Ben have at first?
  - (b) What is the ratio of the total number of tarts to the total number of cookies they had at first? Give your answer in the simplest form.

	A	.ns: (a)		[3]
		(b)	<del></del>	[2]
A				/ 5
	The End			
13	Remember to check your work!	,		



SCHOOL : MAHA BODHI PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT : MATH TERM : 2019 SA1

### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	2	1	1	4	1	2	4	3

Q 11	Q12	Q13	Q14	Q15
3	4	2	3	1

### PAPER 1 BOOKLET B

Q16)	Multiples of 2 : 2,4,6,8,10,12, <u>14,</u> 16,18,20,22,24,26, <u>28,</u> 30
	Multiples of 7 : 7, <u>14,</u> 21, <u>28</u> ANS : 2
Q17)	$6\frac{5}{8} = 6\frac{625}{1000} \approx 6.63$
Q18)	7.88
Q19)	10 + 10 + 5 = 25min
Q20)	5s  o 8
	$60 \div 5 = 12$
	$60s \rightarrow 12 \times 8 = 96 \ ribbons$
Q21)	$10 + \left(\pi \times 10 \times \frac{1}{2}\right) = (10 + 5\pi)m$
Q22)	$< BCE = 180^{\circ} - 68^{\circ} = 112^{\circ}$
	$< BAE = < BCE = 112^{\circ}$
Q23)	138 x 2 = 276
	276 ÷ 3 = 92
Q24)	4m + (m - 3) = (5m - 3)g
Q25)	42 ÷ 6 = 7
	$\frac{22}{7}\times7\times7\times\frac{1}{4}=38.5cm^2$
Q26)	100 % - 5% = 75%
	$\frac{90}{75} \times 100 = 120$
·[	120 – 78 = 42 Need a home tutor? Visit smiletutor.sc

	$\frac{42}{120} \times 100 = 35\%$	
Q27)	210km ÷ 70km/h = 3h	
	5h – 3h = 2h	
	70km/h + 10km/h = 80km/h	
	80km/h x 2h = 160km	
	160km + 210km = 370km	
Q28)	$\frac{1}{3} = \frac{3}{9}$	
	9-5=4	
	4 units = 60	
	9 + 5 = 14	
	14 units = $\frac{60}{4} \times 14 = \$210$	
Q29)	27	
Q30)	76 – 72 = 4	
	15 x 4 = 60	
	79 – 76 = 3	
	$60 \div 3 = 20$	
	20 + 15 = 35	

#### PAPER 2

Q1) 
$$< ACB = 180^{\circ} - 90^{\circ} - 40^{\circ} = 50^{\circ}$$
  
 $< ACB = < ECD = 50^{\circ}$   
 $< CED = < CDE$   
 $\frac{180^{\circ} - 50^{\circ}}{2} = 65^{\circ}$   
Q2)  $19 - 1 = 18$   
 $18 \times 3 = 54$   
Q3)  $6$   
Q4)  $5 - 3 = 2$   
 $2 \text{ units} = 112 + 80 = 192$   
 $5 \text{ units} = \frac{192}{2} \times 5 = \$480$   
Q5)  $\frac{40 - 4}{6} = 6$   
Q6)  $8 \times 17 = 136$   
 $4 \times 3 = 12$   
 $136 + 12 = 148$   
 $9324 \div 148 = 63$   
 $63 \times 17 = 1071$   
Q7)  $20 \times 2 = 40$   
 $\frac{1}{2} \times 40 \times 20 = 400$   
 $3.14 \times 20 \times 20 \times \frac{1}{2} = 628$ 

	400 + 628 = 1028cm <sup>2</sup>
Q8)	128 - 37 = 91
•	7 units = 91
	1 unit = 91 ÷ 7= 13
	3 units = 13 x 3 = 39
	39 + 37 = 76
Q9)	<u></u>
αo,	$a)\frac{1}{4} = \frac{2}{8}$
	$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$
	$\frac{\frac{18000}{3} \times 5}{3} \times 5 = 30000ml$
	b)45 x 25 x 40 = 45000
	$\frac{30000}{45000} = \frac{2}{3}$
Q10)	$a)400 \times 0.85 = 340$
•	250 x 0.85 = 212.50
	$300 \times 0.85 = 255$
	$450 \times 0.85 = 382.50$
	382.50 + 255 + 212.50 + 340 = 1190
	1190 ÷ 4 = \$297.50
	b)400 x 3 = 1200
	$1200 - 300 - 450 = 450 \text{m}^3$
Q11)	The cost of 31 notepads + 70 pens = Total amount of money + \$0.80
	The cost of 30 notepads + 71 pens = Total amount of money - \$0.70
	The cost of 1 notepad – 1 pen = \$0.80 + \$0.70 = \$1.50
	\$1.50 X 70 = \$105
	\$130 + \$105 = \$235
	\$235 ÷ 100 = \$2.35
Q12)	$< SPR = < SRP = \frac{180^{\circ} - 66^{\circ}}{2} = 57^{\circ}$
	$\langle SRP = \langle QPR = 57^{\circ} \rangle$
	$< QPT = 57^{\circ} - 27^{\circ} = 30^{\circ}$
	$\langle QPT = \langle QTP = 30^{\circ} \rangle$
	$  < POT = 180^{\circ} - 30^{\circ} \times 2 = 120^{\circ}$
Q13)	15km/h x 8h = 120km
٦.٠,	11h - 8h = 3h
	120km ÷ 3h = 40km/h
	40 km/h + 15 km/h = 55 km/h
Q14)	2 units = 226
<b>- ,</b>	1 unit = 226 ÷ 2 = 113
	113 + 58 = 171
i	113 + 250 = 363
	474 u 202 - 524
	Need a home tutor? Visit smiletutor.s

Q15)	2 units = 7048	
	1 unit = 7048 ÷ 2 = 3524	
	21 units = 3524 x 21	
	= \$74004	
Q16)	a)201.3m	
	$(b)3.14 \times 30 \times 30 \times \frac{1}{4} = 706.5$	
]	$15 \times 15 \times 4 = 900$	
1	900 - 706.5 = 193.5	
	$15 \times 15 \times 7 - 193.5 \times 3 = 994.57$	$n^2$
Q17)	1 part + 14 = 1 unit	1 part = 38 – 14 = 24
	7 part = 4 unit + 16	24 + 38 + 14 = 76
	7 part + 98 = 7 unit	7 parts = 24 x 7 = 168
	3 unit = 16 + 98 = 114	4 units = 38 x 4 = 152
	1 unit = 114 ÷ 3 = 38	152 + 168 + 16 = 336
]		
	a)76	
	$\mathbf{b})\frac{76}{336} = 19:84$	

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# MID-YEAR EXAMINATION 2019 PRIMARY 6 MATHEMATICS

## PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

## **INSTRUCTIONS TO CANDIDATES**

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

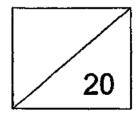
Follow all instructions carefully.

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 2019	



This booklet consists of **6** printed pages including this 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. (20 marks)

- 1 Express 37 + 12n 2n + 7n in the simplest form.
  - (1) 37 + 3n
  - (2) 37 + 17n
  - (3) 49 9n
  - (4) 49 + 5n
- 2 0.15 × + 4 = 154

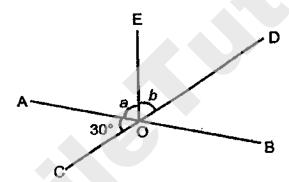
What is the missing number in the box?

- (1) 1
- (2) 10
- (3) 100
- (4) 1000
- The ratio of Hassan's age to Meng Li's age is 3:8. What fraction of their total age is Meng Li's age?
  - (1)  $\frac{3}{11}$
  - (2)  $\frac{3}{8}$
  - (3)  $\frac{8}{11}$
  - (4)  $\frac{8}{3}$

- 4 Express  $\frac{2}{7}$  as a decimal corrected to 2 decimal places.
  - (1) 0.27
  - (2) 0.28
  - (3) 0.29
  - (4) 0.30
- 5 There are 70 fruits in a box, 56 are apples and the rest are pears. What is the ratio of the number of pears to the number of apples?
  - (1) 1:4
  - (2) 1:5
  - (3) 4:1
  - (4) 4:5
- A box contains 200 blue, red and yellow marbles. There are 65 blue marbles, 45 red marbles and the rest are yellow. What percentage of the total number of marbles is yellow?
  - (1) 45%
  - (2) 50%
  - (3) 55%
  - (4) 90%
- 7 Gayle has p stickers. Zahra has three times as many stickers as Gayle and Lee Qin has 4 stickers fewer than Gayle. How many stickers do they have altogether?
  - (1) (4p+4)
  - (2) (5p+4)
  - (3) (5p-4)
  - (4) (7p-4)

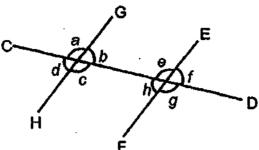
- Which one of the following shapes does not have both of the properties 8 below?
  - (a) Diagonally opposite angles are equal.(b) Angles between parallel lines are equal.

  - (1) **Rhombus**
  - (2) Rectangle
  - (3) Trapezium
  - (4) **Parallelogram**
- In the figure, AB, CD and OE are straight lines.  $\angle a = \angle b$ . Find  $\angle a$ . 9



- (1) 30°
- 60° (2)
- 75° (3)
- 150° (4)

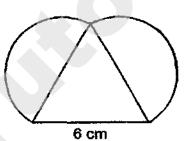
10 In the figure below, CD, EF and GH are straight lines. EF and GH are parallel to each other.



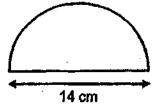
Which one of the following statements is true?

- (1)  $\angle d = \angle e$
- (2)  $\angle c = \angle g$
- (3)  $\angle a = \angle f$
- $(4) \qquad \angle b = \angle e$
- 11 Find the value of  $\frac{3}{10} + \frac{2}{5}$ 
  - (1)  $\frac{3}{4}$
  - (2)  $\frac{4}{3}$
  - (3)  $\frac{3}{25}$
  - (4)  $\frac{25}{3}$
- Mother had  $\frac{5}{9}$  m of ribbon. She used  $\frac{3}{5}$  of it to tie a present. How much ribbon had she left?
  - (1)  $\frac{1}{2}$  m
  - (2)  $\frac{1}{3}$  m
  - (3)  $\frac{2}{45}$  m
  - (4)  $\frac{2}{9}$  m

- Mr Tan spent 10% of his money on food and 15% on transport. He then had \$300 left. How much money did he have at first?
  - (1) \$100
  - (2) \$200
  - (3) \$400
  - (4) \$900
- The figure is formed by an equilateral triangle and 2 semicircles of diameter 6 cm. Find the perimeter of the figure. Leave your answer in terms of  $\pi$ .
  - (1)  $(6\pi + 6)$  cm
  - (2)  $(6\pi + 18)$  cm
  - (3)  $(9\pi + 6)$  cm
  - (4)  $(12\pi + 18)$  cm



- The figure is a semicircle of diameter 14 cm. What is the area of the figure? Take  $\pi = \frac{22}{7}$ 
  - (1) 22 cm<sup>2</sup>
  - (2) 44 cm<sup>2</sup>
  - (3) 77 cm<sup>2</sup>
  - (4) 154 cm<sup>2</sup>



# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# MID-YEAR EXAMINATION 2019 PRIMARY 6 MATHEMATICS

## PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

# 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.

Name:		( )	
Class:	Primary 6		
Date:	14 May 2019	Paper 1 Booklet A	/ 20
		Paper 1 Booklet B	/ 25
		Paper 2	/ 55
Parent's	Signature:	TOTAL	/ 100

This booklet consists of <u>8</u> printed pages including this page.

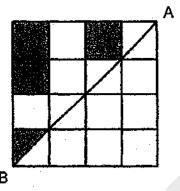
	etions 16 to 20 carry 1 mark each. Write your answers in the spaces ded. For questions which require units, give your answers in the units d. (5 marks)	Do not write in this space
16	Write in two million, ten thousand and nine in numerals.	
	Ans:	
17	A number when rounded to the nearest hundred is 1 600. What is the greatest possible whole number?	
٠.		<u> </u>
	Ans:	
18	Find the value of $\frac{1}{10} + \frac{9}{1000}$ . Give your answer as a decimal.	
•	- · · · · · · · · · · · · · · · · · · ·	
	Ans:	

19	Express 0.9% as a fraction.		Do not write in this space
	Ans:		
20	Mr Wong has a 10-m long string. He cuts the strin of $\frac{5}{6}$ m each. How many such shorter pieces of str		
		-	
		· · ·	
	·		
	Ans:		

Questions 21 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. (20 marks)

Do not write in this space

21 Shade the least number of squares or triangles, such that AB is the line of symmetry.





22 Figure A is made up of 2 identical quadrants.

Both Figure A and Figure B have the same diameter of 20 cm.





Figure A

Figure B

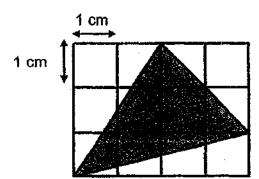
Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick ( $\checkmark$ ) in the correct column.

Statement	True	False	Not possible to tell
Both Figure A and Figure B have the		·	<u> </u>
same perimeter.			
Both Figure A and Figure B have the			
same area.			

Need a homo turner to Visite miletutor.sg

23	In the figure below, ABCD is a square. Find ∠ADE.	Do not write In this spac
	A C	
	Ans:°	
24	James bought $1\frac{1}{8}$ kg of beef. He used $\frac{3}{4}$ kg of it to make some beef pattles. How much beef had he left?	

25 What fraction of the figure is shaded?



Do not write in this space

Ans:

There were 50 children at a party. Each child received a packet of sweets which had a mass of 0.15 kg. What was the total mass of the sweets that was given out?

Ans: \_\_\_\_\_ g

27	Mr Tan bought 7d pencils. He gave 3 pencils to each of his pupils and had 2d pencils left. Express the number of pupils Mr Tan had in terms of d.	Do not write in this space
	Ans:	
28	In the diagram below, ABE is an equilateral triangle. BC is parallel to AD and DC is perpendicular to BC. Find ∠FBC.	

Ans: \_\_\_\_\_

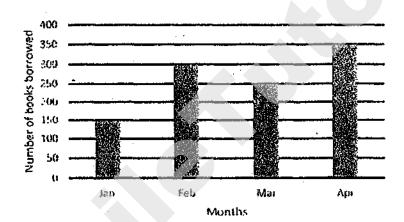
The figure is made up of 4 identical rectangles. What is the ratio of the shaded area to the total area of 4 identical rectangles?

Do not write in this space



Ans:

The graph below shows the total number of books borrowed from January to April.



- (a) In which month was there a decrease in the number of books borrowed?
- (b) What was the percentage increase in the number of books borrowed in February compared to January?

Ans: (a)\_\_\_\_\_

(b) \_\_\_\_\_

End of Paper

# METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# MID-YEAR EXAMINATION 2019 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1h 30 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:	14 May 2019	55
Parent's	Signature:	_

This booklet consists of 14 printed pages including this page.

our answers in the spaces provided. For questions w give your answers in the units stated.	early and hich require (10 marks)	Do not write in this space
Buns were sold at \$1.60 each or 2 for \$3. What was number of buns that Siti could buy with \$20?	the greatest	Ô
	Baozi  1 for \$1.60 2 for \$3	
Ans:		
Ben had enough money to buy either 4 notebooks or He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		
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He bought 5 exercise books and some note books. I		
He bought 5 exercise books and some note books. I		

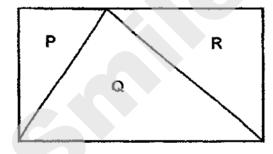
3 Find the value of  $6 + \frac{3n}{5}$  when n = 7.

Do not write in this space

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

ns: \_\_\_\_\_

The figure below is a rectangle. The ratio of the area P to the area of Q is 3:7. What is the ratio of the area of Q to the area of R?



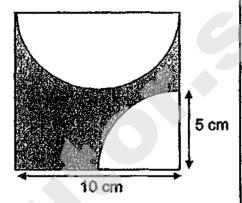
Ans: \_\_\_\_\_

5	May bought 160 red and blue buttons. 25% of the buttons bought	Do not write
	were red. May used 75% of the blue buttons for art work.	in this space
	How many blue buttons did May use?	
•		
•		
		:
	Amar	
	Ans:	
	<del>-</del>	-

For questions 6 to 17, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

Do not write in this space

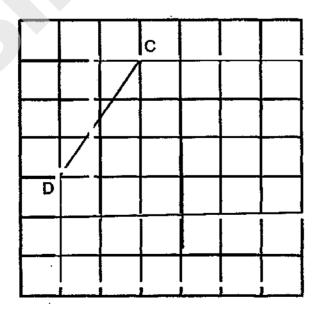
The figure shows a square of side 10 cm, a semicircle and a quadrant of radius 5 cm. Find the perimeter of the shaded part. Take  $\pi = 3.14$ .



Ans: \_\_\_\_\_[3]



7 The grid below shows a straight line, CD. Draw 3 more lines to form a square CDEF. Label your diagram clearly. [3]



8	Gavin had some chicken pies and vegetable pies in the ratio of 5:2. He sold 18 chicken pies and made 15 more vegetable pies. In the end, he has equal number of chicken pies and vegetable pies. How many vegetables pies did he have at first?	Do not write in this space
	Ans:[3]	
—- 9	Su Mei is <i>k</i> years older than her sister. The sum of their ages is 38 years.	
	(a) How old is Su Mei now? Express Su Mei's age is terms of k.	
	(b) If $k = 6$ , how old will Su Mei be in 7 years' time?	
	-	
	Ans: (a)[1]	
	(b)[2]	

The books in a library are packed equally into Box A and Box B.

The ratio of the number of fiction books to the number of non-fiction books in Box A is 2:1. The ratio of the number of fiction books to the number of non-fiction books in Box B is 4:11. What is the ratio of the total number of fiction books to the total number of non-fiction books in the library?

Do not write in this space

Ans: \_\_\_\_\_[3]

11	Diana has 1625 mt of orange juice in a jug. She poured the juice into
	similar glasses, filling each glass with 250 m² of orange juice.

- (a) What was the maximum number of such glasses Diana could fill?
- (b) How much of the orange juice was left in the jug? Give your answer in litres.

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

(b)	 [2]
\-,	

12 There were 350 goldfish and guppies in a shop. 20% of them were goldfish. After some goldfish were added, the percentage of goldfish increased to 30%. How many goldfish were added?

Ans:	[4	ļ	
------	----	---	--

In May, Mr Ahmad saved  $\frac{1}{3}$  of his salary and used  $\frac{1}{5}$  of his monthly salary to buy a mobile phone. He spent  $\frac{3}{8}$  of the remainder on transport and the rest of the \$1750 was spent on food.

- (a) What fraction of his monthly salary in May was spent on food?
- (b) What was Mr Ahmad's monthly salary in May?

Ans:	(a)	 [2]

14 The figures below are formed using similar matchsticks and dots.

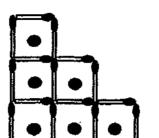


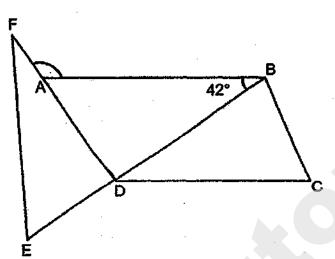
Figure 1 Figure 2 Figure 3

(a) Complete the following table.

Figure Number	Number of dots	Number of matchsticks		
1	1	4		
2	3	10		
3	6	18		
4	(i)[1]	(ii)[1]		

Ans:	(b)	[2]
1 10 10 1	<b>`~</b> /	 LJ

15 In the diagram below, EDB is a straight line and AB is parallel to DC.∠ABD = 42° and BD = CD.



- (a) Find ∠DCB.
- (b) Find ∠FAB.

Ans: (a) \_\_\_\_\_[2]

16 Mary has  $\frac{4}{7}$  as many stickers as Sandy and  $\frac{2}{5}$  as many stickers as Cindy. Cindy has 15 more stickers than Sandy.

Do not write in this space

- (a) What fraction of Cindy's stickers is Sandy's stickers?
- (b) How many stickers do the 3 girls have altogether?

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



### **ABC Bubble Tea**

\$4.50 per cup

For every 5 cups of bubble tea purchased, a 20% discount will be given to the 5th cup.

.

(a) How much did Mrs Yeo pay for 5 cups of bubble tea?

Each cup of bubble tea cost \$4.50 before discount.

(b) Mrs Yeo paid \$151.20 for some cups of bubble tea.

How many cups of bubble tea did she buy?

Do not write in this space

Ans:	(a)	 [3]

(b)\_\_\_\_[2]

**End of Paper** 

SCHOOL: MGS PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH TERM: 2019 SA1

# PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	3	3	1	1	3	3	3	2

Q 11	Q12	Q13	Q14	Q15
1	4	3	1	3

# PAPER 1 BOOKLET B

Q16)	2010009
Q17)	1649
Q18)	$\frac{1}{10} + \frac{9}{1000} = \frac{100}{1000} + \frac{9}{1000} = \frac{109}{1000} = 0.109$
Q19)	9 1000
Q20)	$10 \div \frac{5}{6} = 10 \times \frac{6}{5} = 12$
Q21)	
Q22)	False True
Q23)	180° – 45° = 135°
Q24)	$\frac{3}{4} \times 2 = \frac{6}{8}$ $1\frac{1}{8} - \frac{6}{8} = \frac{9}{8} - \frac{6}{8} = \frac{3}{8} \text{kg}$
Q25)	$2 \times 3 \times \frac{1}{2} = 3(A)$ $4 \times 1 \times \frac{1}{2} = 2 (B)$

	$2\times2\times\frac{1}{2}=2(c)$
	$4 \times 3 = 12$
	$12-2-2-3=5 \rightarrow Ans \frac{5}{12}$
Q26)	1.5 x 5 = 7.5
	7.5kg = 7500g
Q27)	7d – 2d = 5d
	$5d \div 3 = \frac{5d}{3}$
Q28)	180° - 60° = 120°
	120° - 60° = 60°
	180° -60° = 120°
Q29)	
]	1.5 : 4
•	3 : 8
Q30)	a)March
<u></u>	b)100%

# PAPER 2

Q1)	\$20÷\$3 ≈6
	6 x 2 = 12 (buns)
	6 x \$3 = \$18 (cost)
	\$20 - \$18 = \$2
	\$2 - \$1.60 = \$0.40 (1 bun)
	12 + 1 = 13
	The greatest is 13.
Q2)	4 note book→20 exercise book
	1 note book→5 exercise book
	$5 \div 20 \times 4 = 1$
	4-1=3
Q3)	$6 + \frac{3x7}{5} = 6 + \frac{21}{5}$
	5 5
}	21
•	$=6+\frac{21}{5}$
	·
	$=$ $6^{\frac{21}{1}}$
:	$=6\frac{21}{5}$
}	
	$=10\frac{1}{5}$
	<b>5</b>
Q4)	P: Q
34-17	3 : 7
1	

	Area of $\Omega = \frac{1}{4}$	Area of rectangle	
	4		
	<u> </u>	Area of rectangle	
	Area of rectang	gle = 14 (Area of R) Ans:7 : 4	
	14-3-7=4	(Miearol K) Alis. 1. 4	
Q5)	25% →Red (10	60 ÷100 x 25 = 40)	
	•	$60 \div 100 \times 75 = 120$	
	120÷100 x 75	= 90	
Q6)	Arc of quadrar		
•		k ¼ )cm = 7.85cm	
	Arc semicircle	s = 2πr κ ½ )cm = 15.7cm	
		+ 7.85cm + 5cm + 10cm = 43.55cm	,
			<u> </u>
Q7)			
		l lc	
•		000	
		(40)	, . <del>.</del>
Q8)	15 + 18 = 33		<u></u>
	$33 \div 3 = 11$		
	11 x 2 = 22		
Q9)	a) $(\frac{38+k}{2})$		
'	2 /		-
	b)(38+6)÷2 = 3	22	
040	22 + 7 = 29	D D	
Q10)	Box A F:NF	<u>Box B</u> F : NF	
	2:1	4:11_	
	Total 3 x 5	total 15	
	= 15u	wai iv	
	" 174		

	10 + 4 = 14
	11 + 5 = 16
	F NF
	14 : 16
	7 : 8
1	The ratio is 7:8
Q11)	a)1625ml ÷250ml = 6.5
	Diana could fill 6 glasss
}	b)6 x 250ml = 1500ml
	1625ml – 1500ml = 125ml
ļ 	125ml = 0.125L
Q12)	
·	35u = 350
	12u — 7u = 5u
	$5u = 350 \div 35 \times 5 = 50$
Q13)	$a)\frac{5}{8} \times \frac{7}{15} = \frac{7}{24}$
	b)\$1750 ÷7 x 24 = \$6000
Q14)	a)i)10 ii)28
•	b)15
Q15)	a)(180° - 42° ) ÷ 2 = 69° b)180° - 90° = 48° 180° - 48° = 132°
Q16)	a)Mary : Sandy Mary : Cindy
	4 : 7 2 : 5
	4 : 10
	$= \frac{7}{10} \text{ of Cindy's is Sandy}$
	b)10 - 7 = 3
-	3u →15
ļ	15 ÷ 3 = 5
	4u + 10u + 7u = 21u
	21u →5 x 21 = 105 .
Q17)	a)\$(4.50 ÷ 100 x 80 ) = \$3.60 (discounted)
	\$3.60 + (\$4.50 x 4) = \$21.60
	b)\$151.20 ÷ \$21.60 = 7 1 x 7 = 7
	7 x 4 = 28
	28 + 7 = 35



#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 2019 PRIMARY 6

# MATHEMATICS PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 hour

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

Name :	(	}
Class : 6		
Date : 16 May 2019	Parent's Signature :	

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

- 1. Round 245 542 to the nearest thousand.
  - (1) 245 000
  - (2) 245 500
  - (3) 246 000
  - (4) 250 000
- 2. What is the value of  $16 + (40 8) + 4 \times 2$ ?
  - (1) 6
  - (2) 24
  - (3) 32
  - (4) 48
- 3. Which one of the following are common factors of 12 and 30?
  - (1) 2 and 3
  - (2) 2 and 5
  - (3) 3 and 4
  - (4) 4 and 6

- 4. Find  $\frac{2}{7} \div \frac{5}{6}$ 
  - (1)  $\frac{12}{35}$
  - (2)  $\frac{5}{21}$
  - (3)  $2\frac{11}{12}$
  - (4)  $4\frac{1}{5}$
- 5.  $\frac{3}{5} \times 12 = 3 \times \frac{3}{5} + \frac{3}{5} + \square \times \frac{3}{5}$ 
  - (1) 5
  - (2) 8
  - (3) 9
  - (4) 4
- 6. Simplify the following algebraic expression.

- (1) 16 + 11a
- (2) 16 + a
- (3) 12 + 11a
- (4) 12 + a

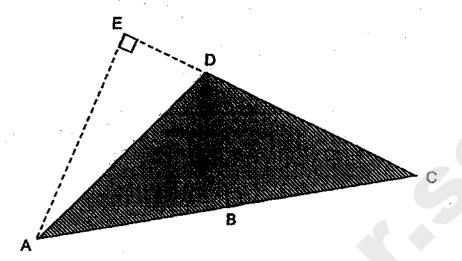
- 7. Simon started his revision at 11.55 a.m. He revised for 1 h 50 min.
  What time did Simon stop his revision?
  - (1) 1.05 a.m.
  - (2) 1.45 a.m.
  - (3) 1.05 p.m.
  - (4) 1.45 p.m.
- 8. The table below shows the number of coins saved by Natalie for 5 days.

Day	Number of colns saved			
	20-cent coins	50-cent coins		
Monday	4	2		
Tuesday	10	0		
Wednesday	0	3		
Thursday	5	5		
Friday	8	1		

On how many days was Natalie able to save at least \$2?

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

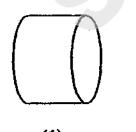
9.



From the figure above, which one of the following shows the correct base and height of triangle ACD?

	Base	Height
(1)	BD	AC \
(2)	CD	AE
(3)	CE	AĘ
(4)	CD	BD

10. Which one of the following is a symmetric figure?



(1)



(2)

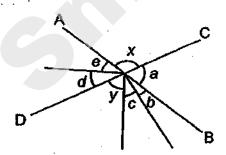


(3)



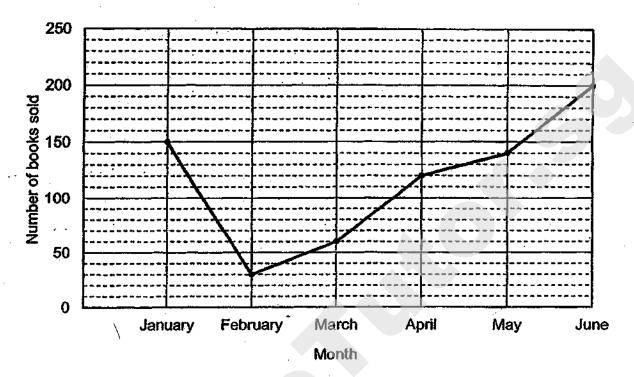
(4)

- 11. What is the value of 21 +  $\frac{4y}{2}$  when y = 6?
  - (1) 22
  - (2) 24
  - (3) 26
  - (4) 33
- 12. At a carnival, the ratio of the number of adults to the number of children is 7:9. The number of boys is  $\frac{1}{5}$  the number of girls. What is the ratio of the number of girls to the number of adults?
  - (1) 1:7
  - (2) 5:7
  - (3) 3:14
  - (4) 15:14
- 13. In the figure below not drawn to scale, AB and CD are straight lines. Find the difference between  $\angle x$  and  $\angle y$ .



- (1) ∠a-∠d
- (2) ∠b+∠c
- (3) ∠d+∠e
- (4) ∠a-∠e

14. The line graph below shows the number of books sold by a shop from January to June in 2015.



What was the average number of books sold per month from February to April in 2015?

- (1) 35
- (2) 70
- (3) 75
- (4) 210

15. The table below shows the number of students in 6A. Some of the information is missing.

	With CCA	Without CCA	Total
Boys	10		
Giris	15		20
Total			36

Based on the given information, which of the following statements is correct?

- (1)  $\frac{1}{5}$  of the students with a CCA are boys.
- (2) 25% of the girls are without any CCA.
- (3) There are more girls than boys who are without any CCA.
- (4) The ratio of the number of girls to the number of boys in 6A is 4:5.



#### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 -- 2019 PRIMARY 6

### MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

#### **INSTRUCTIONS 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. Write your answers in this booklet.
- 6. The use of calculators is NOT allowed.

#### Marks Obtained

Paper 1	Booklet A	/45
	Booklet B	
Paper 2		/ 55
Total		/ 100

Name:	(	)
Class : 6	· 	
Date : 16 May 2019	Parent's Signature :	

	estions 16 to 20 carry 1 mark each. Write your answered. For questions which require units, give your anseted.		Do not write in this space
16.	Find the value of $18 \div \frac{4}{5}$		
		6	
	Ans:		,
17.	How much water is there in the beaker?		
	Ans:	m	
18.	Write down the common multiple of 3 and 7 that is granuler than 50.	eater than 40 but	
	Ans:		

/3

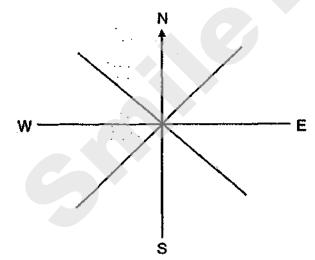
Subtotal

19. 3 children shared  $\frac{2}{3}$  of a pizza equally. What fraction of a pizza did each child get?

Do not write in this space

Ans : \_\_\_\_\_

20. Jimmy is facing west now. When he makes a  $\frac{3}{4}$  – turn in a clockwise direction and another  $\frac{1}{4}$  – turn in an anticlockwise direction, where will Jimmy be facing?



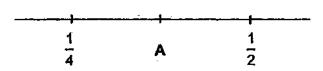
Ans : \_\_\_\_\_\_

!	Subtotal	/2
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Questions 21 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. [20 marks]

Do not write in this space

21. A is a fraction that lies exactly between  $\frac{1}{4}$  and  $\frac{1}{2}$ . What is A?



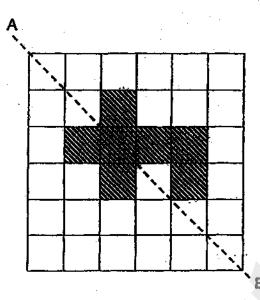
Ans:

22. Draw a triangle ABC such that AB = BC = 5 cm and ∠ ABC = 80°

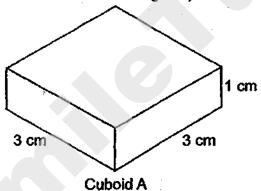
Subtotal /4

23. There are 7 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.

Do not write in this space



24. The figure below shows Cuboid A. Draw a cuboid with a volume twice that of Cuboid A on the isometric grids provided.



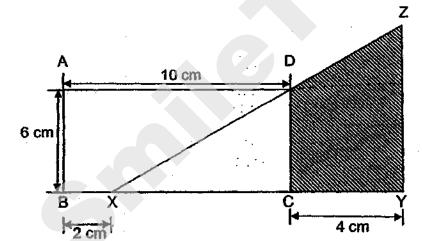
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Subtotal /4
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25. Mdm Lim made  $\frac{7}{8}$   $\ell$  of orange drink. She poured the orange drink into glasses of capacity  $\frac{1}{5}$   $\ell$  each. All the glasses were completely filled except for 1 glass. How much orange drink was in the glass that was not completely filled?

Do not write in this space

26. In the figure below not drawn to scale, Rectangle ABCD has the same area as Triangle XYZ. Find the area of the shaded part.



ns:\_\_\_\_cm

Subtotal	14

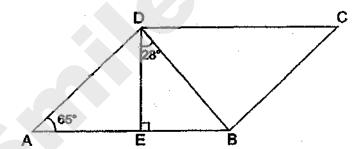
27. Madam Fatimah baked some cupcakes. After selling  $\frac{1}{4}$  of the cupcakes, she packed the remaining cupcakes into 12 boxes. There were 4w cupcakes in each box. How many cupcakes did Madam Fatimah bake in all?

Do not write in this space

Ans : \_\_\_\_\_

28. The figure below is not drawn to scale.

ABCD is a parallelogram.  $\angle BAD = 65^{\circ}$  and  $\angle BDE = 28^{\circ}$ . Find  $\angle DBC$ .



Ans: \_\_\_\_\_

Subtotal

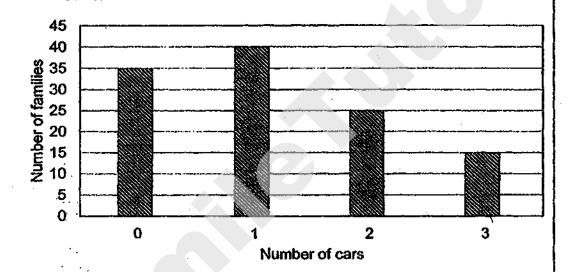
14

29. Bowen has some 10-cent and 50-cent coins in his savings box.
There are 3 fewer 50-cent coins than 10-cent coins in the box. The total value of the coins is \$5,70. How many 10-cent coins does Bowen have?

Do not write in this space

Ans:	ten-cent coins

30. The bar graph shows the number of cars owned by families living in an estate.



Each of the statements below is either true, false or impossible to tell from the information given. For each statement, put a tick ( $\sqrt{\ }$ ) to indicate your answer.

Statement	True	False	Not possible to tell
40 families own at least 2 cars.			
50% of the total number of cars are owned by families with only 1 car.			

- END OF PAPER 1	Subtotal /4		_
	Subtotal	14	
14	i'	i I	1



### NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 2019 PRIMARY 6

#### **MATHEMATICS**

#### Paper 2

Total Time for Paper 2: 1 hour 30 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**

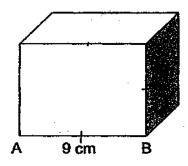
Total	ļ	/ 55		
			<b>-</b>	
Name :			(	. )
Class :				
Date : 16 May 2019	Parent's Sign	ature :		

## Paper 2 (55 marks)

Do not write in this space

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

 The volume of the cuboid below is 216 cm<sup>3</sup>. The length of AB is 9 cm. What is the area of the shaded face?



Ans: cm²

2. The ratio of Tom's money to Jerry's money was 1:5 at first. After spending \$25 each, they had a total of \$130 left. How much did Tom have at first?

Ans: \$

After joining the Active Kids Program decreased by 5%. He is 57 kg now. programme?		
·		
	Ans:	kg
The table below shows the postage	e rates for delivering packages	to
Australia.		_
Mass step not over	Postage	
100 g	\$4.70	
250 g	\$9.85	
500 g	\$17.00	7
Every additional 100 g	\$3.50	
	•:•	<del>'</del>
How much postage did Mr Lim pay t	o deliver a 550 g package to	
Australia?		
	-	
		ļ

5. The table shows the number of cupcakes a shop sold in 5 days.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	
Number of cupcakes	0	680	?	1050	900	

The average number of cupcakes sold from Monday to Friday was 850. The shop was closed on Monday. How many cupcakes did the shop sell on Wednesday?

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Do not write in:

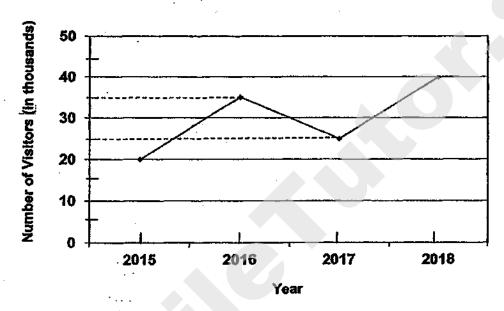
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IIN.			

For questions 6 to 17, 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. (45 marks)

Do not write in this space

6. The line graph below shows the number of visitors to a museum from 2015 to 2018.

#### Number of Visitors to a Museum



- (a) What was the total number of visitors in the 4 years?
- (b) What was the percentage increase in the number of visitors from 2017 to 2018?

Ans: (a) \_\_\_\_\_\_[1]

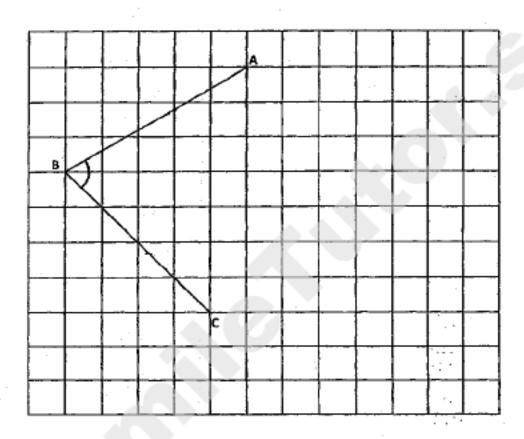
(b) \_\_\_\_\_[2]

 In the square grid, two sides of a parallelogram AB and BC have been drawn. Do not write in this space

(a) Measure and write down the size of ∠ABC.

(b) Complete the drawing of the parallelogram ABCD.

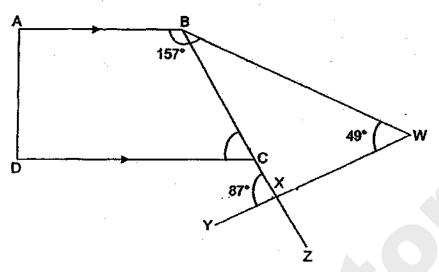
[2]



Ans: (a) [1

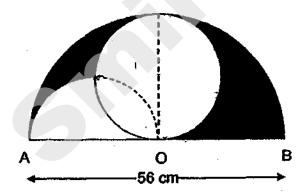
8. In the figure, not drawn to scale, AB is parallel to DC. AD, BW, BZ and WY are straight lines. ∠ ABW = 157°. Find ∠BCD.

Do not write in this space



Ans: [3]

9. The figure is made up of a circle and 2 semi-circles. O is the centre of the large semi-circle and AB is 56 cm. Find the perimeter of the shaded parts. (Take  $\pi = \frac{22}{7}$ )



Ans: \_\_\_\_\_[4]

10. The table below shows the rates for printing class T-shirts at a printing shop.

Do not write in this space

Quantity	Charge
First 20 T-shirts	\$13 each
Every additional T-shirt	\$10,50

Amy went to the printing shop to print T-shirts for her classmates. She paid \$428 altogether. How many T-shirts were printed?

		1	
\ns:	[3]		

- 11. Winnie and Lulu shared a sum of money. At first, Winnie had \$58. Then Lulu gave her \$25. In the end, Lulu's amount of money was reduced by 10%:
  - (a) How much did Lulu have at first?
  - (b) Find the sum of money shared by the two girls.

Ans: (a) \_\_\_\_\_[2]

(b) [1]

Mr Ng bought 208 T-shirts and shorts altogether. He paid a total of \$3050. Each T-shirt cost \$14 and each pair of shorts cost \$20.

Do not write in this space

- (a) How many T-shirts did Mr Ng buy?
- (b) How many pairs of shorts did Mr Ng buy?

Ans: (a) \_\_\_\_\_[3]

(b) [1]

13. Some children took a Mathematics test. Their average score was 78.1 marks. One of the children's scores was wrongly recorded as 79 marks instead of 97 marks. As a result, the average score was calculated as 76.3 marks. How many children sat for the test?

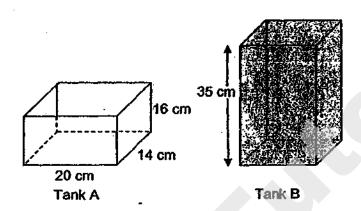
Do not write in this space

Ans: \_\_\_\_\_[4]

14. Tank A which measured 20 cm by 14 cm by 16 cm was empty. Tank B with a base area of 200 cm² and a height of 35 cm was completely filled with water. The water from Tank B was then poured into Tank A to its brim.

Do not write in this space

- (a) What was the volume of water in Tank B at first?
- (b) What was the volume of water in Tank B in the end?



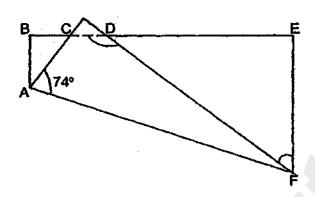
Ans: (a) \_\_\_\_\_[1]

(b) [3]

15. In the figure below, a rectangular piece of paper is folded along AF as shown. BCDE is a straight line. Find

Do not write in this space

- (a) ∠ DFE and
- (b) ∠BDF



Ans: (a) \_\_\_\_\_[2]

(b) \_\_\_\_\_[2]

16. Dylan had three boxes, A, B and C, containing a total of 1512 stamps. The number of stamps in Box A is  $\frac{2}{7}$  of the total number of stamps. Dylan sold 190 stamps from Box B and sold  $\frac{1}{4}$  of the stamps in Box C.

The number of stamps left in Box B was twice the number of stamps left in Box C. How many stamps were there in Box B at first?

Do not write this space

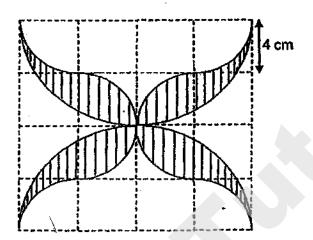
Ans: \_\_\_\_\_[5]

17. The figure below is made up of two big identical semicircles, 8 small identical quadrants and 16 squares. The side of each square is 4 cm. Find

Do not write in this space

- (a) the radius of the big semicircles and
- (b) the total area of the shaded parts

(Use  $\pi$  in the calculator and give your answers correct to 2 decimal places)



Ans: (a)	[1]
(b)	[4]

-End of Paper-----

SCHOOL :

**NAN HUA PRIMARYSCHOOL** 

LEVEL :

**PRIMARY 6** 

SUBJECT:

**MATH** 

TERM :

2019 SA1

### **PAPER 1 BOOKLET A**

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	1	1	2	2	4	3	2	1

Q 11	Q12	Q13	Q14	Q15
4	4	2	2	2

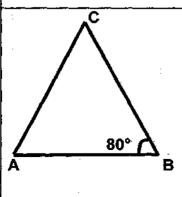
### **PAPER 1 BOOKLET B**

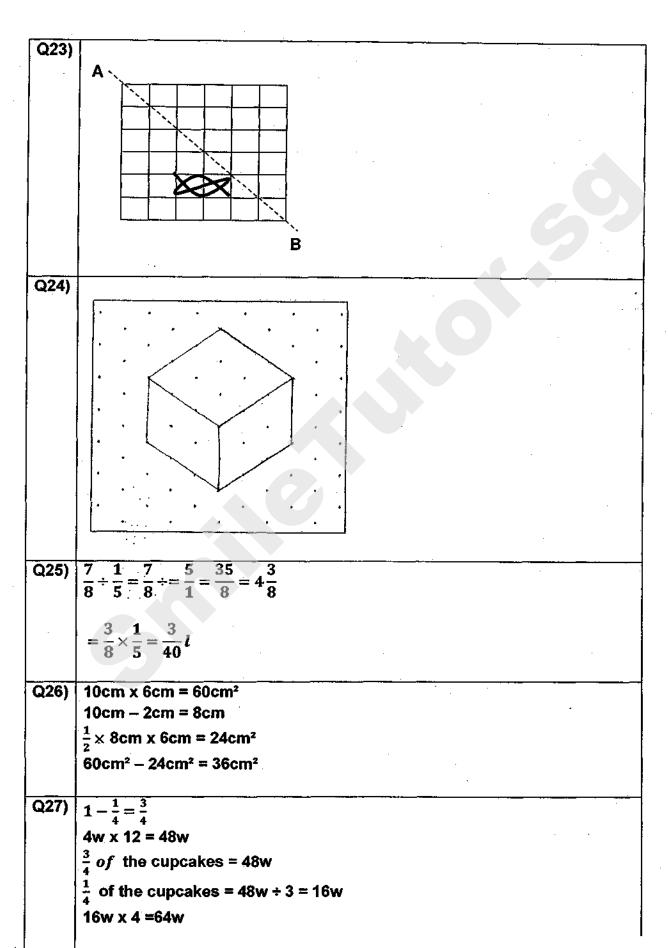
Q16)	$\frac{18}{1} \times \frac{5}{4} = \frac{90}{4}$		
	$=22\frac{2}{4}$	=	$22\frac{1}{2}$

Q19) 
$$\frac{2}{3} \div 3 = \frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$$

Q21) 
$$\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$$
  
 $\frac{3}{4} \div 2 = \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$ 



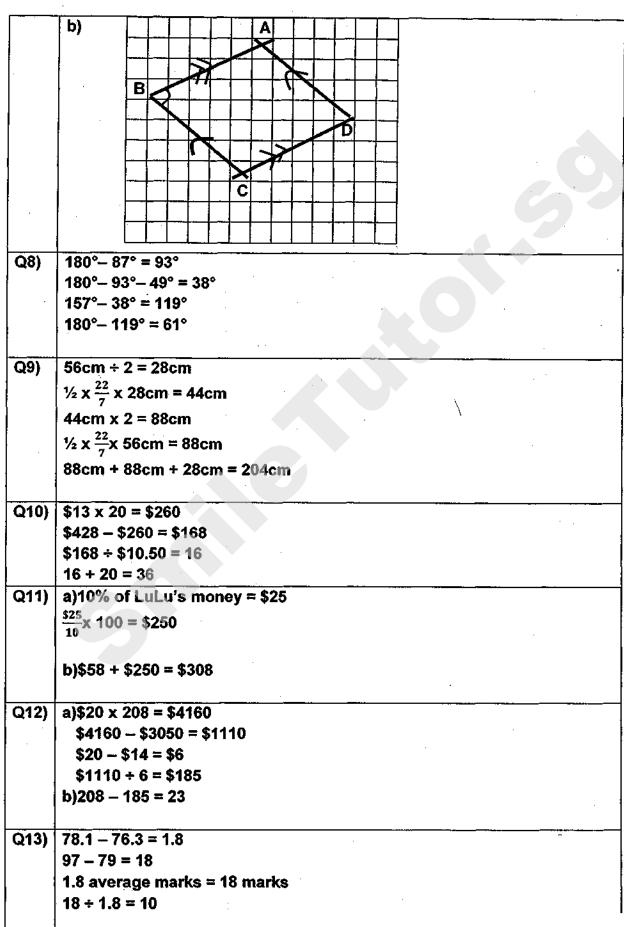




Q28)	180° – 65° = 115°	
٠.	$180^{\circ} - 90^{\circ} - 65^{\circ} = 25^{\circ}$	
	115° – 25° – 28° = 62°	
	180° - 62° - 65° = 53°	
Q29)	10¢ x 3 = 30¢	
	\$5.70 = 570¢	
	570¢ - 30¢ = 540¢	
	50¢ + 10¢ = 60¢	
	540¢ ÷ 60¢ = 9	
	9 + 3 = 12 ten cents coins	
Q30)	True	
	False	

#### PAPER 2

Q1)	? x ? x 9cm = 216cm³ 216cm³÷ 9cm = 24cm²		
Q2)	\$130 + \$25 + 25 = \$180 5u + 1u = 6u 6u = \$180 1u = \$180 ÷ 6 = \$30	·	
Q3)	100% - 5% = 95% 95% of his original mass→57kg <u>57kg</u> x 100 = 60kg 95	•	
Q4)	\$17 + \$3.50 = \$20.50		
Q5)	850 x 5 = 4250 4250 - 680 - 1050 - 900 = 1620		
Q6)	a)120 x 1000 = 120000 b)40 - 25 = 15 $\frac{15}{25}$ x 100% = 60%		· .
'Q7)	a)75°	<del> </del>	



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a) $200cm^2 \times 35cm = 7000cm^3$ Q14) b)20cm x 14cm x 16cm = 4480cm<sup>3</sup>  $7000 \text{cm}^3 - 4480 \text{cm}^3 = 2520 \text{cm}^2$ Q15) a)180°-74°-90° = 16° 90°- 16°- 16° = 58° b) $180^{\circ} - 90^{\circ} - 58^{\circ} = 32^{\circ}$ 180°- 32° = 148° Q16) At first left A:B+C:Total B:C 2: 5:7 2:1x3 (1080) (1512) 6:3/ 7u = 15126p + 190 + 4p = 1080 $1u = 1512 \div 7 = 216$ 10p = 1080 - 190 = 890 $5u - 216 \times 5 = 1080$  $1p = 890 \div 10 = 89$  $6p = 89 \times 6 = 534$ 534 + 190 = 724Q17) a)4cm  $\times 2 = 8$ cm b)4cm  $\times$  4cm = 16cm<sup>2</sup>  $16cm^2 \times 4 = 64cm^2$  $\frac{1}{2} \times \pi \times 8 \text{cm} \times 8 \text{cm} = 32 \pi \text{cm}^2$  $2 \times (32\pi - 64)$ cm<sup>2</sup>...  $= (64\pi - 128) \text{cm}^2$ ≈73.06cm<sup>2</sup>



## FIRST SEMESTRAL ASSESSMENT 2019

### **PRIMARY 6**

# MATHEMATICS PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

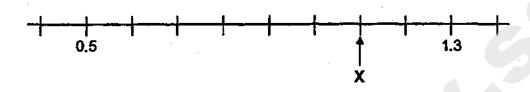
### **INSTRUCTIONS TO PUPILS**

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name:		(	)
Class: Primary 6 (	)		

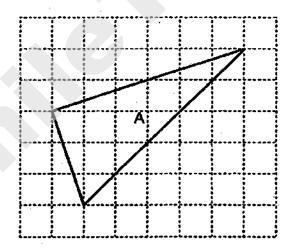
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

1 In the number line below, what is the value of X?



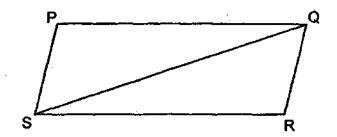
- (1) 0.9
- (2) 1.0
- (3) 1.1
- (4) 1.2
- 2 Find the value of  $\frac{4}{7} \div \frac{2}{3}$ .
  - (1)  $\frac{6}{7}$
  - (2)  $\frac{8}{21}$
  - (3)  $1\frac{1}{6}$
  - (4)  $2\frac{5}{8}$

- Joan had some rubber bands. 40% of her rubber bands were blue and the remaining rubber bands were red. She gave away 75% of her red rubber bands. What percentage of her rubber bands were given away?
  - (1) 15%
  - (2) 30%
  - (3) 45%
  - (4) 60%
- The square grid below shows Triangle A. What type of triangle is Triangle A?



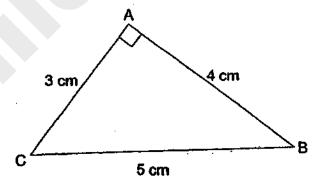
- (1) Equilateral triangle
- (2) Isosceles triangle
- (3) Right-angled triangle
- (4) Obtuse-angled triangle

5 In the figure below, PQRS is a parallelogram.



### Which one of the following is false?

- (1) PS = QR
- (2)  $\angle$ SPQ =  $\angle$ QRS
- (3)  $\angle QPS + \angle PSR = 180^{\circ}$
- (4) PQ // PS
- .6 What is the area of triangle ABC shown below?



- (1) 6 cm<sup>2</sup>
- (2) 7.5 cm<sup>2</sup>
- (3) 10 cm<sup>2</sup>
- (4) 12 cm<sup>2</sup>

7 Find the area of a circle of radius 10 cm. Leave your answer in terms of  $\pi$ .

- (1)  $10 \, \pi \, \text{cm}^2$
- (2)  $20 \, \pi \, \text{cm}^2$
- (3)  $50 \,\pi \,\text{cm}^2$
- (4)  $100 \pi \text{ cm}^2$
- Which of the following is likely to be the length of the whiteboard in the classroom?
  - (1) 2 cm
  - (2) 2 m
  - (3) 20 m
  - (4) 2 km.

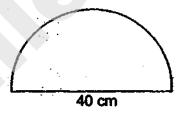
Use the information below to answer questions 9 and 10.

The table below shows the amount of rainfall from March to June.

Month	Amount of rainfall (mm)
March	744
April	162
May	696
June	6

- 9 Which month had the most amount of rainfall?
  - (1) March
  - (2) April
  - (3) May
  - (4) June
- The amount of rainfall in July was a 50% decrease from the amount in June. How much was the amount of rainfall in July?
  - (1) 3 mm
  - (2) 9 mm
  - (3) 12 mm
  - (4) 18 mm

- Anna, Beth and Cate had some stamps. Anna had  $\frac{3}{5}$  of what Cate had and  $\frac{3}{7}$  of what Beth had. Find the ratio of the number of stamps Beth had to the number of stamps Cate had.
  - (1) 3:5
  - (2) 3:7
  - (3) 5:7
  - (4) 7:5
- The figure shown below is a semicircle of diameter 40 cm. What is the perimeter of the figure? (Take  $\pi = 3.14$ )



- (1) 62.8 cm
- (2) 102.8 cm
- (3) 125.6 cm
- (4) 165.6 cm

- Nabil had 3460 g of cookies to sell at a carnival. He packed them into as many packets of 100 g as possible and had some cookies left unpacked. How much more cookies would he need so that he could pack 1 more packet of cookies of exactly 100 g?
  - (1) 34 g
  - (2) 34.6 g
  - (3) 40 g
  - (4) 60 g
- 44 Express 8p + 6 p + 3p 2 in the simplest form.
  - (1) 4p-4
  - (2) 4p + 4
  - (3) 10p-4
  - (4) 10p + 4

- At a community event, there were some children and 156 adults.  $\frac{2}{3}$  of the children and  $\frac{1}{6}$  of the adults received a gift. Sixty people received a gift. How many children were there at the event?
  - (1) 34
  - (2) 51
  - (3) 66
  - (4) 207



# FIRST SEMESTRAL ASSESSMENT 2019

### **PRIMARY 6**

# PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

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

Name: _			·	_(	,
Class: P	rimary 6 (	)			

Booklet B / 25

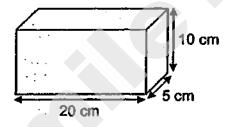
Any query on marks awarded should be raised by <u>24 May 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 Express  $2\frac{3}{10}$  as a decimal.

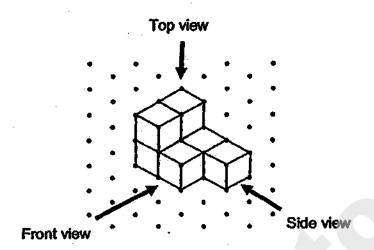
Ans:			

17 Find the volume of the cuboid shown below.

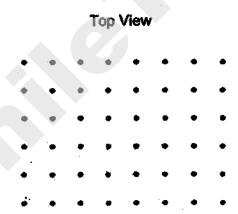


Ans:		cm <sup>3</sup>
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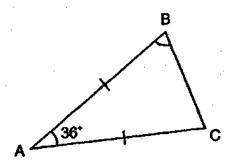
John stacked 7 unit cubes and glued them together to form the solid below.



Draw the top view of the solid on the grid below.

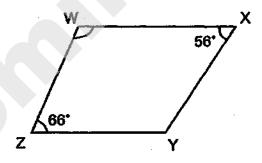


19 In the figure below, ABC is an isosceles triangle. AB = AC.  $\angle$ BAC = 36\*. Find  $\angle$ ABC.



Ans:

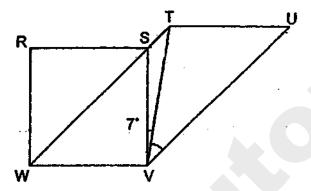
20 In the figure below, WXYZ is a trapezium and WX is parallel to ZY.  $\angle$ WXY = 56° and  $\angle$ WZY = 66°. Find  $\angle$ XWZ.



Ans: \_\_\_\_\_\_

Questions 21 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. (20 marks)

21 In the figure below, RSVW is a square and WTUV is a parallelogram. WST is a straight line. ∠TVS = 7\* Find ∠TVU.



Áns: \_\_\_\_\_\_ º

22 Find the circumference of a circle of diameter 28 m. (Take  $\pi = \frac{22}{7}$ )

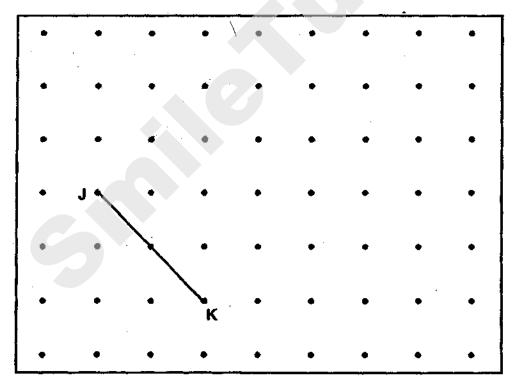
Ans: \_\_\_\_\_ m

23 The figure below shows a square and a quarter circle. The length of the square is 20 cm. Find the area of the shaded part. Leave your answer in terms of  $\pi$ .

	20 cm
20 cm	

Ans:		cm <sup>2</sup>
------	--	-----------------

24 A straight line JK is drawn inside a box.



L is one of the dots inside the box. Draw two lines JL and KL to complete a triangle JKL with JL = JK.

The number of stamps that Arthur had was  $\frac{6}{7}$  of what James had. What was the ratio of the number of stamps Arthur had to the total number of stamps that both of them had?

Ans:

Adelle used green beads and orange beads to make a necklace. For every 12 green beads she used, she would use 3 orange beads. She used 117 more green beads than orange beads to make the necklace. How many green beads did Adelle use to make the necklace?

Ans:

27 Study the pattern below.

Find the digit in the ones place of the product below.

Ans: \_\_\_\_\_

28 Aida had  $\frac{5}{8}$  kg of flour. She packed the flour equally into 5 bags. How much flour was there in one bag?

Ans: \_\_\_\_\_ kg

	ens left was pens were		There w	ere 20 re	d pens in t	he end.
				•		
			•			
•			• •	Ans:		
· · · · · · · · · · · · · · · · · · ·	<del>-,</del>	<u>.                                      </u>				

pages she read to the number of pages left unread was 5:1. How many pages of the book did she read in the second week?

Ans:	
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**End of Paper** 



# FIRST SEMESTRAL ASSESSMENT 2019

### **PRIMARY 6**

## MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

### **INSTRUCTIONS TO PUPILS**

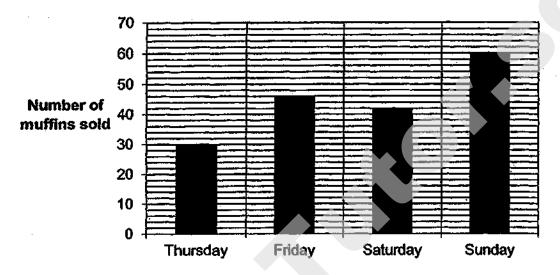
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of an approved calculator is expected, where appropriate.

Name:	( )	: . · ·
Class: Primary 6 ( )	Booklet A	/ 20
Parent's Signature:	Booklet B	/ 25
	Paper 2	/ 55
	Total	/ 100

Any query on marks awarded should be raised by <u>24 May 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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 in the units stated. (10 marks)

The bar graph below shows the number of muffins sold at a shop from Thursday to Sunday.



Complete the table with the number of muffins sold on Friday and Sunday.

Day	Number of muffins sold
Thursday	30
Friday	
Saturday	42
Sunday	-

A wheel of radius 21 cm made 1 complete turn. Find the distance covered. (Take  $\pi = \frac{22}{7}$ )

Ans:	<u> </u>	cm

3 Mrs Lam deposited \$400 000 in a fixed deposit account which paid her an interest of 1.2% per year. How much interest did she receive at the end of 1 year?

Ans:	\$
------	----

4 The table shows the taxi fare rates.

TAXI FARE RATES	
First km	\$3.20
Every additional 400 m or less	\$0.22

Kenny took a taxi from his home to his office. The distance travelled was 6.8 km. How much did Kenny pay for the trip?

Ans:	\$
	•

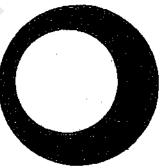
John and 5 other swimmers completed a 100-m swim. The average time taken by John and the 5 swimmers was 99 seconds. Excluding John, the average time taken by the 5 swimmers was 101 seconds. What was the time taken by John?

For questions 6 to 17, 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. (45 marks)

Aaron had a sum of money at first. He spent \$242 of his money on a pair of shoes and  $\frac{1}{5}$  of the remaining money on a wallet. He had \$56 left. How much money did Aaron have at first?

Ans:			[3]
- 10.141	-		[~]

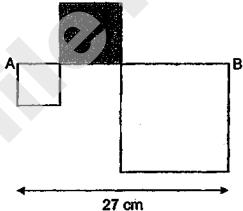
7 The figure below shows two circles. The radius of the small circle is 21 cm. The radius of the big circle is 35 cm. Find the area of the shaded part. (Take  $\pi = \frac{22}{7}$ )



Ans: \_\_\_\_\_\_[3]

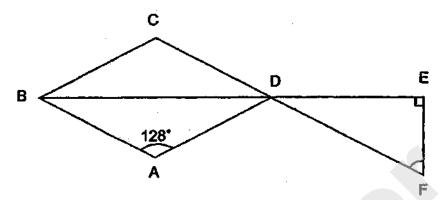
Melvin wanted to train for a 10-km marathon. He started by running 2.4 km in the first week. He increased his distance by 800 m every week from the previous week. In which week would the distance that he ran be more than 10 km but less than 11 km?

The figure below is formed using 3 squares of different sizes. The area of the figure is 285 cm<sup>2</sup>. The area of the shaded square is 64 cm<sup>2</sup>. The length of the straight line AB is 27 cm. The length of each square is a whole number when measured in cm. Find the length of the smallest square.



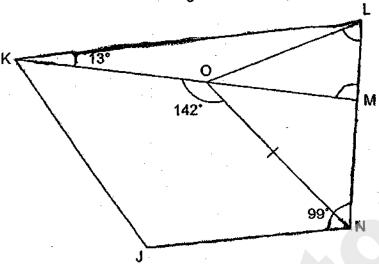
Ans:		[3]
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In the figure below, ABCD is a rhombus and DEF is a right-angled triangle. BDE and CDF are straight lines. ∠BAD ≥ 128'. Find ∠DFE.



Ans: \_\_\_\_\_\_[3]

In the figure below, JKLN is a trapezium and NOL is an isosceles triangle. KL is parallel to JN and ON = NL. ∠JNL = 99°, ∠NOK = 142° and ∠MKL = 13°. KOM is a straight line.



- (a) Find ∠KML.
- (b) Find ∠MLO.

Ans: (a) \_\_\_\_\_\_[1]

(b) [3]

12 Two different shops offer the following discounts for the same tennis racket priced at \$180 before discount.





- (a) Which shop sold the racket at a lower price after discount?
- (b) What was the difference in the price of the tennis racket after discount between the two shops?

Ans: (a)		_ [1]
----------	--	-------

13 Mr Ng had a total of 208 apples and pears at first. The ratio of the number of apples to the number of pears was 8 : 5 at first. After he bought some apples, the ratio of the number of apples to the number of pears then became 7 : 4. How many apples did he buy?

Ans:		[4]
------	--	-----

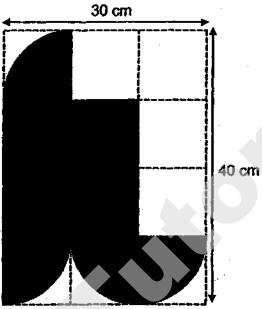
Mr Lee spent a total of \$28.50 on some files, rulers and highlighters. He bought twice as many highlighters as files. Each ruler cost \$0.50 and each file cost thrice as much as each highlighter. He spent \$4.50 more on the files than on the highlighters. How many rulers did he buy?

Ans:	 [4	]
	 -	•

Benny, Charles and Dinesh had some stickers. Benny had 80 more stickers than Charles. The number of stickers Charles had was  $\frac{4}{9}$  as many as Dinesh's stickers. During a game, Benny lost  $\frac{1}{4}$  of his stickers to Dinesh. In the next game, Charles won  $\frac{3}{5}$  of Dinesh's stickers. In the end, Charles had 148 more stickers than Dinesh. How many stickers did Dinesh have in the end?

Ans:		[4]
------	--	-----

The figure is drawn on a rectangular piece of paper 30 cm by 40 cm as shown below. Its outline consists of 4 identical quarter circles and 5 straight lines.



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

(Take  $\pi = 3.14$ )

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

- Jolene had some red, yellow and blue beads. The ratio of the number of red beads to the number of yellow beads was 2:3. The ratio of the number of yellow beads to the number of blue beads was 4:1. She then bought some blue beads and lost 9 red beads. In the end, the ratio of the number of red beads to the total number of yellow and blue beads became 1:6 and the ratio of the number of yellow beads to the number of blue beads became 2:3.
  - (a) At first, what was the ratio of the number of red beads to the number of yellow beads to the number of blue beads?
  - (b) How many blue beads did she buy?

Ans:	(a)	 [1
	(b)	 [4

End of Paper

SCHOOL: NANYANG PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH TERM: 2019 SA1

#### **PAPER 1 BOOKLET A**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	3	3	4	1	4	2	1	1 .

Q 11	Q12	Q13	Q14	Q15	
4	2	3	4	2	

#### **PAPER 1 BOOKLET B**

Q16)	$2\frac{3}{10} \times 10 = 2\frac{30}{100} = 2.3$
Q17)	10 X 5 X 20 = 50 X 20 = 1000 cm <sup>3</sup>
Q18)	
Q19)	180° – 36° = 144° 144° ÷ 2 = 72°
Q20)	180° - 66° = 114°

Q21)	l .
	180° – 45° = 135°
	135° + 7 = 142°
	180° – 142° = 38° (≤WTV)
Q22)	$\frac{22}{7}$ x 28 = 88 m
	7 × 20 = 00 III
Q23)	$20 \times 20 \times \pi = 20 \times 2 \times 10 \times \pi$
1	$=40 \times 10 \times \pi$
	$=400\pi$
	$400\pi \div 4 = 100\pi$
	$400 - 100\pi = (400 - 100\pi)$
Q24)	
	· · · / L · · · · ·
	/
	.J <\
Q25)	A : j
	6 : 7
	6 + 7 = 13
	A:T
	6 : 13
Q26)	12 – 3 = 9
	117 ÷9 = 13
	13 x 12 = 156
Q27)	9
	·
Q28)	$\frac{5}{8}$ kg ÷ 5 = $\frac{8}{8}$ x $\frac{1}{5}$ = $\frac{1}{8}$ kg
	8 5 8 5
000	
Q29)	R : B : D 6 : 14 : 8
	U . 14 . 0
	20÷ 5 = 4
	6-5=1
	1 x 4 = 4

Q30)	R : U : T	<del></del>	
	2 : 4 : 6		
}	5 : 1 : 6		
	600 ÷ 6 = 100		
	4-1=3		
	3 x 100 = 300		

# PAPER 2

Q1)	Friday 46
	Sunday 60
Q2)	21 x 2 = 42
	$\frac{22}{7}$ x 42 = 132 cm
Q3)	\$400000 ÷ 100 = \$4000
	\$4000 x 1.2 = \$4800
Q4)	13 + 2 = 15
	(15 x \$0.22) + \$3.20 = \$6.50
Q5)	5+1=6
	99 x 6 = 594 101 x 5 = 505
	594 – 505 = 89 s
Q6)	5-1=4
	\$56 ÷4 = \$14
-	\$14 x 5 = \$70 \$242 + \$70 = \$312
Q7)	$21 \times 21 \times \frac{22}{7} = 1386$
	$35 \times 35 = \frac{22}{7} 3850$
	3850 – 1386 = 2464 cm <sup>2</sup>
Q8)	10km = 10000m
(40)	2.4km = 2400m
	10000m - 2400m = 7600
	7600 ÷ 800 = 9.5
	9.5 ≈ 10
	800 x 10 = 8000
	8000 + 2400 = 10400
<u> </u>	10400 ÷ 1000 = 10.4 / Need a home tutor? Visit smilett

Q9)	285 - 64 = 22
	27 – 8 = 19
	19 – 5 = 14
	(5x5)+(14x14) = 25 + 196 = 221
	ANS: 5
Q10)	
•	52° ÷ 2 = 26°
	26° + 90° = 116°
	180° – 116° = 64°
Q11)	a)180° – 99° = 81°
GC 117	180° – 13° – 81° = 86°
	b)180° – 86° = 94°
	180° – 142° = 38°
	38° + 94° = 132°
	180° – 132° = 48°
	·180° – 48° = 132°
	132° ÷ 2 = 66°
Q12)	
	a)Shop P
	b)\$180 - \$50 = \$130 (p)
	$\frac{25}{100}$ x \$180 = \$45
	\$180 - \$45 = \$135 (Q)
	\$135 <b>-</b> \$130 <b>=</b> \$5
Q13)	
	A:P A:P:J
	8 : 5 32 : 20 : 52
	7:4: 4:35:20:52
	208 ÷ 52 = 4
	55 – 52 = 3
	3 X 4 = 12 apples
	A V. A. IT WANTED
Q14)	
	$$4.50 \times 5 = $22.50$
	\$28.50 - \$22.50 = \$6
	\$6 ÷ \$0.50 = 12 rulers
	· · · · · · · · · · · · · · · · · · ·

```
\frac{3}{5} of D = 6u + 12
Q15)
       (6u+12)+ 4u = (10u+12)
       (10u+20) - (6u+12) = (4u+8)
       (10u+12) - (4u+8) = 6u + 4
       148 - 4 = 144
       144 \div 6 = 24
       24 \times 4 = 96
       96 + 8 = 104 stickers
       30 \div 3 = 10
Q16)
       40 \div 4 = 10
       10 \times 8 = 80
       40 \div 2 = 20
       20 \times 3.14 = 62.8
       62.8 + 80 = 142.8
       20 \times 20 = 400
       10 \times 10 \times 3.14 = 314
       314 + 400 = 714
       a)142.8cm
       b)714 cm<sup>2</sup>
Q17)
       a)R : Y : B
          2:
                 3
        b)8 - 5 = 3
          9 \div 3 = 3
          18 - 3 = 15
          15 \times 3 = 45
```



## RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 1) PRIMARY 6

()
Math Teacher:
Duration : 1 hour

### **INSTRUCTIONS TO CANDIDATES**

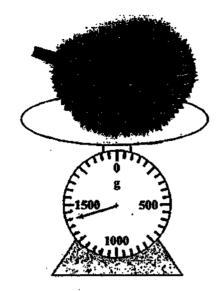
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale. [20 marks]

- 1. What does the digit 7 in 50,763 stand for?
  - (1) 7 ones
  - (2) 7 tenths
  - (3) 7 hundredths
  - (4) 7 thousandths
- 2. What is eight million and forty thousand in numerals?
  - (1) 804 000
  - (2) 840 000
  - (3) 8 040 000
  - (4) 8 400 000
- 3. John has \$160. He has \$100 more than Kim. Express the amount of money John has as a fraction of the amount of money Kim has.
  - (1)  $\frac{3}{8}$
  - (2)  $\frac{8}{13}$
  - (3)  $\frac{8}{5}$
  - (4)  $\frac{8}{3}$

- 4. Terry has  $7\frac{3}{4}$  times as many marbles as Sam. What is the ratio of Terry's number of marbles to Sam's number of marbles?
  - (1) 4:25
  - (2) 4:31
  - (3) 25:4
  - (4) 31:4
- 5. Find the value of  $3 \frac{2y}{5}$  when y = 4.
  - (1)  $\frac{2}{5}$
  - (2)  $1\frac{2}{5}$
  - (3)  $1\frac{3}{5}$
  - (4)  $2\frac{3}{5}$

#### 6. What is the mass of the durian?



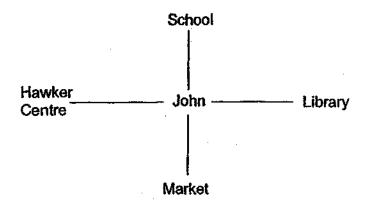
- (1) 1.3 kg
- (2) 1.4 kg
- (3) 400 kg
- (4) 1300 kg

#### 7. Arrange the following fractions beginning with the smallest.

	5 8	1 1 2	2 <del>5</del>	
- 1				

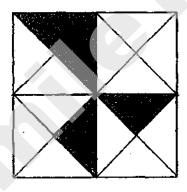
- (1)  $1\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{2}{5}$
- (2)  $\frac{5}{8}$ ,  $\frac{2}{5}$ ,  $1\frac{1}{2}$
- (3)  $\frac{2}{5}$ ,  $\frac{5}{8}$ ,  $1\frac{1}{2}$
- (4)  $\frac{5}{8}$ ,  $1\frac{1}{2}$ ,  $\frac{2}{5}$

8.



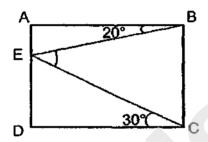
John was facing the school. He made a 90° clockwise turn followed by a 270° anticlockwise turn. Where was he facing in the end?

- (1) School
- (2) Library
- (3) Market
- (4) Hawker Centre
- 9. What percentage of the square is shaded?



- (1) 25%
- (2) 37.5%
- (3) 50%
- (4) 75%

- 10. 23 pupils from Class 5A and 37 pupils from Class 5B went for a baking workshop. The total cost of the workshop for both classes was \$900.
  What was the cost of the workshop for each pupil?
  - (1) \$15
  - (2) \$18
  - (3) \$150
  - (4) \$180
- 11. ABCD is a rectangle. Find ∠BEC.



- (1) 40°
- (2) 50°
- (3) 60°
- (4) 70°
- 12. Devi is x years old. She is 3 times as old as her brother. How old is her brother in 2 years' time?
  - (1) 3x + 2
  - (2) 3x 2
  - (3)  $\frac{x}{3} + 2$
  - (4)  $\frac{x}{3} 2$

- 13. A fishmonger had 12.3 kg of prawns and 32.08 kg of fish in the moming. He had a total of 8.205 kg of prawns and fish left at the end of the day.
  How much prawns and fish did he sell that day?
  - (1) 36.175 kg
  - (2) 36.85 kg
  - (3) 52.585 kg
  - (4) 53.35 kg
- 14. The area of the shaded part is 20% of the area of the square. The area of the unshaded part is 40 cm². Find the area of the square.



- (1) 10 cm<sup>2</sup>
- (2) 50 cm<sup>2</sup>
- (3) 160 cm<sup>2</sup>
- (4) 200 cm<sup>2</sup>
- 15. The price of the microwave oven was  $\frac{1}{8}$  of the price of the refrigerator. During a sale, a 25% discount was given for the refrigerator. What was the ratio of the price of the microwave oven to that of the refrigerator during the sale?
  - (1) 1:4
  - (2) 1:6
  - (3) 3:4
  - (4) 4:1

Questions 16 to 20 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.

[5 marks]

16. Evaluate 54 + (28 - 10) ÷ 6

Ans:			

#### 17. What is the average amount of savings the children have?

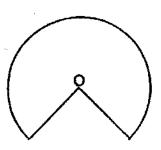
Name	Savings (\$)
Joshua	13
Emma	9
Belle	0
Helmi	14

Ans: \$\_\_\_\_\_

18.	Round 13.952 to the nearest tenth.
	Ans:
	A10.
19.	Starting from 6 p.m., a bus feaves the interchange at intervals of 6 minutes. Mr Kum reaches the interchange at 6.27 p.m. What is the earliest time he can board the bus? Give your answer in 24-hour clock.
	·
	Ans:
	Siti bought 3 dozen pens. She gave away $\frac{3}{4}$ of the pens. How many pens
20.	7
	did she give away?
	Ans:
	7413.

Questions 21 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. All diagrams are not drawn to scale. [20 marks] Mr Wong has some mugs. If he puts them in boxes of 6 or 8, there will be 3 21. mugs left. What is the least number of mugs Mr Wong has? Bala bought  $\frac{3}{4}$  kg of flour. He gave away  $\frac{1}{8}$  kg of flour and used  $\frac{1}{3}$  kg of 22. flour to bake some cookies. How much flour had he left?

23. The figure shows a three-quarter circle of radius 7 cm. O is the centre of the circle, Find the area of the figure. Take  $\pi = \frac{22}{7}$ 



Ans: cm

24. The length of a ribbon is 1 m 20 cm. A florist makes 3 cuts to it to get pieces of ribbons of equal length. How long is each piece of ribbon?

Ans: \_\_\_\_\_cm

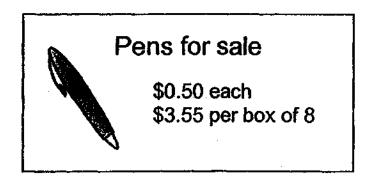
25. Kelly cycled from the school to the library at 10 km/h at 2 p.m. At the same time, Yanie cycled from the library to the school at 8 km/h. The distance between the school and the library was 27 km. What time did they meet each other? Give your answer in 24-hour clock.



26. Terry had  $\frac{9}{10}$  t of fruit juice. He poured  $\frac{1}{12}$  t of fruit juice into 1 cup.

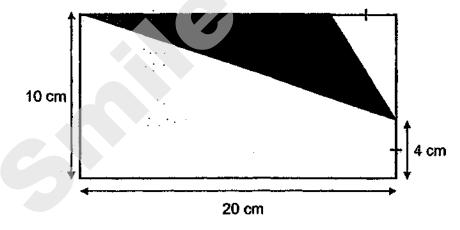
How many cups of fruit juice could he get at most?

Ans:\_\_\_\_\_



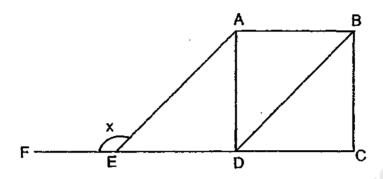
Mrs Tham wanted to buy 42 pens. What was the least amount of money that Mrs Tham needed to pay for the pens?

28. The figure is made up of a rectangle and a triangle. Find the total area of the unshaded parts.



^ns: \_\_\_\_\_ cm

29. ABCD is a square and ABDE is a parallelogram. FC is a straight line. Find ∠x.



Ans: \_\_\_\_\_

30. Mrs Tan always saved 30% of her salary. In June, her salary increased by 10% and she saved \$120 more. What was her salary in June?

End of Paper

Ptease check your work carefully



### RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 2) PRIMARY 6

Name:	( )
Form class: P6	Math Teacher:
Date: 14 May 2019	Duration: 1 h 30 min

### **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. For questions which require units, give your answers in the units stated.

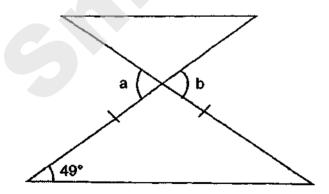
All diagrams are not drawn to scale.

[10 marks]

- 1. Yanni had \$w. She spent \$9 on some stationery. Then she divided the remaining money among her 2 sisters.
  - a) Express the amount of money each sister received in terms of w.
  - b) If each sister received \$35, how much did Yanni have?

Ans :	a)	\$ _[1]
	b)	\$ [1]

2. Find the sum of  $\angle a$  and  $\angle b$ .



Ans			° [2]
1 1110	•	<del></del>	1~,

3.	Devi is 8 years older than Jerry. In 4 years' time, the ratio of their age will be
	5: 7. What is the age of Jerry now?

Ans			וכיו
		 	14.

4. The average mass of 4 children is 25 kg.
The total mass of 2 children is 54 kg. What is the average mass of the other 2 children?

Ans : \_\_\_\_\_kg [2]

5. A box contained some blue and red marbles.  $\frac{1}{4}$  of the marbles were blue. Jane added 20 green marbles into the box.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a  $(\sqrt{})$  to indicate your answer.

Statement	Trụe	False	Impossible to tell
a) After adding the green marbles, the fraction of the marbles that were blue was less than $\frac{1}{4}$ .			
b) The fraction of marbles that were green was greater than the fraction of marbles that were red.			

For questions 6 to 17, 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.

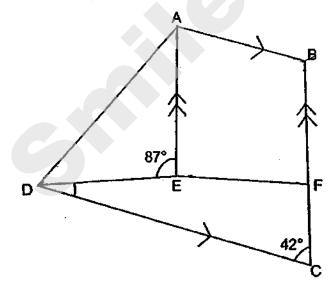
All diagrams are not drawn to scale.

[45 marks]

6. Ming Yi saved a total of \$70 in 7 days. From the second day onwards, she saved \$2 more than the previous day. How much did she save on the 4<sup>th</sup> day?

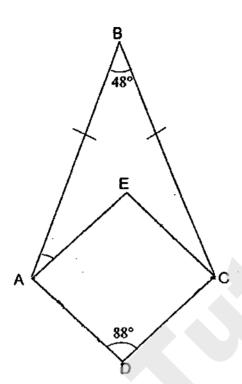
Ans:\_\_\_\_[3]

7. ABCD is a trapezium. EA // FB . Find ∠EDC.



Ans:\_\_\_\_\_[3]

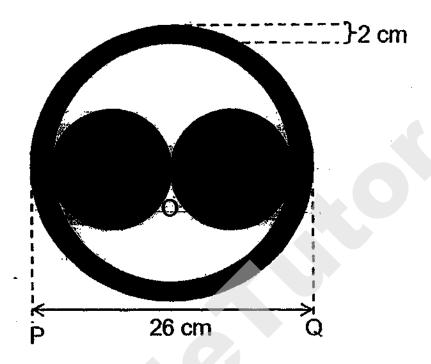
8. AECD is a rhombus. AB = BC. Find  $\angle BAE$ .



Ans : \_\_\_\_\_[3]

9. The figure is made up of 4 circles. The length of PQ is 26 cm. O is the centre of the biggest circle. The 2 inner shaded circles meet at O. The width of the shaded ring is 2 cm. Find the total area of the shaded parts.

Take  $\pi = 3.14$ 

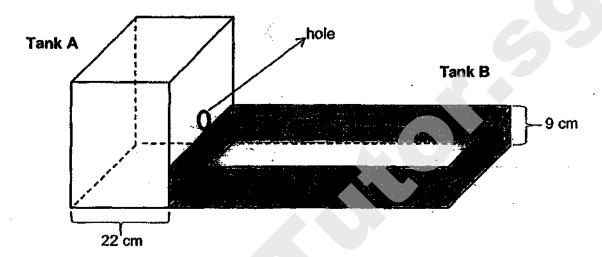


Ans : \_\_\_\_\_\_[4]

10. Samsia earned \$0.45 for each keychain sold. For every 35 keychains sold, she would be given an additional amount of money. She sold 163 keychains and received \$95.35 altogether. What was the additional amount of money she would be given for every 35 keychains sold?

Ans: \_\_\_\_\_[3]

- 11. The figure shows Tank A and Tank B placed together. Both the tanks were empty. Tank A had a breadth of 22 cm and its length was twice that of its breadth. When some water was poured into Tank A, some of the water flowed into Tank B through the hole which was just above Tank B. In the end, Tank B was <sup>2</sup>/<sub>3</sub> filled and there was a total of 10 230 ml of water in the two tanks.
  - (a) What was the volume of water in Tank B?
  - (b) What was the capacity of Tank B?



Ans:( <u>0)</u>	(2)
Ans: (b)	

12. Mrs Tan bought a handbag in France. She wanted to sell the bag for \$3480. After some bargaining, she sold the handbag to Mrs Lee at a 25% discount of the selling price. The amount she received from Mrs Lee was 20% more than what she paid for the handbag. How much did she pay for the handbag?

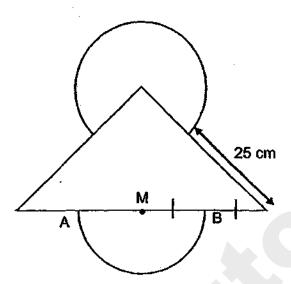


Ans:	[4]

13. The figure shows an isosceles triangle, a three-quarter circle and a semicircle.

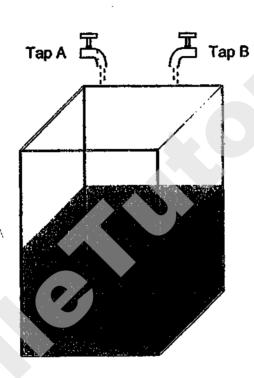
The three-quarter circle and the semicircle have a radius of 14 cm each. M is the midpoint of AB.

What is the perimeter of the figure? Give your answer in terms of  $\pi$ .



Ans: \_\_\_\_\_[3]

- 14. A tank is filled with water from 2 taps. Tap A alone can fill the tank completely in 10 minutes. Tap B alone can fill the tank twice as fast as Tap A. Both taps are turned on at the same time.
  - (a) How long does it take for Tap B alone to fill the tank completely?
  - (b) How long does it take for both taps to fill the tank completely?



Ans:	(a)		[1]
ruis.			

15.	There were 850 pairs of shoes produced in a factory. Each pair of female shoes was sold at \$45. Each pair of male shoes was sold at \$39. When all the shoes were sold, the amount of money collected from the sale of female shoes was \$12 210 more than the amount of money collected from the sale of male shoes. How much money was collected from the sale of the male shoes? Round your answer to the nearest hundred dollars.

- 16. Mrs Tan baked some muffins.  $\frac{3}{5}$  of the muffins were banana muffins and the rest were walnut muffins. Her family ate  $\frac{3}{4}$  of the banana muffins and she donated 252 walnut muffins to an old folks' home. Then she had  $\frac{1}{4}$  of the muffins left.
  - (a) What fraction of the muffins did her family eat? Give your answer in the simplest form.
  - (b) How many muffins did she bake altogether?

Ans:	(a)	[2
	(b)	13

17. The table shows the cost of fruits in Stall A.

Food	Price
Oranges	4 for \$3
Apples	3 for \$2
French Melons	\$9 each

- (a) Mr Tan bought an equal number of oranges and apples. What was the ratio of the amount he spent on the oranges to the amount he spent on the apples? Give your answer in the simplest form.
- (b) Mrs Lee bought some fruits. The ratio of the number of oranges to the number of apples to the number of French melons is 8:9:3. She spent \$936 altogether. How many fruits did she buy altogether?

Ans: (a	)	[2]
(1	h)	13.

End of Paper
Please check your work carefully ©



SCHOOL: RAFFLES GIRLS'PRIMARY SCHOOL

LEVEL : PRIMARY6

SUBJECT: MATH TERM: 2019SA1

## PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	4	4	2	2	3	3	1	1 .

Q 11	Q12	Q13	Q14	Q15
2	3	1	2	2

### PAPER 1 BOOKLET B

$ \begin{array}{c} = 57 \\ \hline \text{Q17})  13 + 9 + 14 = 36 \div 4 = \$9 \\ \hline \text{Q18})  14.0 \\ \hline \text{Q19})  18.30 \text{pm} \\ \hline \text{Q20})  3 \times 12 = 36 \\ \hline 36 \times \frac{3}{4} = 27 pens \\ \hline \hline \text{Q21})  27 \\ \hline \text{Q22})  \frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8} \\ \hline \frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24} kg \\ \hline \hline \text{Q23})  \frac{22}{7} \times 7 \times 7 = 154 \\ \hline 154 \times \frac{3}{4} = 115.5 cm^2 \\ \hline \hline \text{Q24})  120 \div 4 = 30 \text{ cm} \\ \hline \hline \\ \hline \text{Q25})  15.30 \text{pm} \\ \hline \end{array} $	Q16)	54 + 18 ÷ 6 = 54 + 3
Q18) 14.0 Q19) 18.30pm Q20) $3 \times 12 = 36$ $36 \times \frac{3}{4} = 27 pens$ Q21) 27 Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24} kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5 cm^2$		= 57
Q19) 18.30pm Q20) $3 \times 12 = 36$ $36 \times \frac{3}{4} = 27pens$ Q21) 27 Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24}kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5cm^2$ Q24) 120 ÷ 4 = 30 cm	Q17)	13 + 9 + 14 = 36 ÷ 4 = \$9
Q20) $3 \times 12 = 36$ $36 \times \frac{3}{4} = 27 pens$ Q21) $27$ Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24} kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5 cm^2$ Q24) $120 \div 4 = 30 \text{ cm}$	Q18)	14.0
36× $\frac{3}{4}$ = 27pens Q21) 27 Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24}kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5cm^2$ Q24) 120 ÷ 4 = 30 cm	Q19)	18.30pm
Q21) 27  Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24}kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5cm^2$ Q24) $120 \div 4 = 30 \text{ cm}$	Q20)	
Q22) $\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$ $\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24}kg$ Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5cm^2$ Q24) $120 \div 4 = 30 \text{ cm}$		$36 \times \frac{3}{4} = 27 pens$
$\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24}kg$ $Q23) \frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5cm^{2}$ $Q24) 120 \div 4 = 30 \text{ cm}$	Q21)	27
Q23) $\frac{22}{7} \times 7 \times 7 = 154$ $154 \times \frac{3}{4} = 115.5 cm^2$ Q24) $120 \div 4 = 30 \text{ cm}$	Q22)	$\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$
$154 \times \frac{3}{4} = 115.5 cm^{2}$ Q24) $120 \div 4 = 30 \text{ cm}$		$\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24} = \frac{7}{24} kg$
$154 \times \frac{3}{4} = 115.5 cm^{2}$ Q24) $120 \div 4 = 30 \text{ cm}$	Q23)	$\frac{22}{7} \times 7 \times 7 = 154$
Q25) 15.30pm	Q24)	120 ÷ 4 = 30 cm
	Q25)	15.30pm

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Q26)	$\frac{9}{10} \div \frac{1}{12} = \frac{9}{10} \times \frac{12}{1} = 10 R 4 = 10 cups$	
Q27)	3.55 X 5 = 17.75	
<u> </u>	0.5 x 2 =1	
E	17.75 + 1 = \$18.75	
Q28)		
i	$6 \times 20 \times \frac{1}{2} = 60$	
	$4 \times 6 \times \frac{1}{2} = 12$	
	60 - 12 = 48	
	10 x 20 = 200	
<u> </u>	200 - 48 = 152cm <sup>2</sup>	
Q29)	$(180^{\circ}-90^{\circ}) \div 2 = 45^{\circ}$	
	180° – 45° = 135°	
Q30)	120 ÷ 3 = 40	
	40 x 110 = \$4400	

## PAPER 2

Q1)	a)(w - 9)÷ 2 = $\frac{w-9}{2}$
	b)35 x 2 = 70 70 + 9 = \$79
Q2)	180° - 49° - 49° = 82° 180° - 82° = 98° 98° x 2 = 196°
Q3)	7-5=2 8÷2=4 4×5=20 20-4=16 years old
Q4)	25 x 4 = 100 100 - 54 = 46 46 ÷ 2 = 23 kg
Q5)	a)True b)Impossible to tell
Q6)	2 x 21 = 42 70 - 42 = 28

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	28 ÷ 7 = 4	<del>-</del>
	2 x 3 = 6	
	6 + 4 = \$10	
Q7)	∠FBA + ∠BAE = 180°	
wij.		
	$\angle EAD + \angle ADE = 180^{\circ} - 87^{\circ} = 93^{\circ}$	
	$\angle EDC = 360^{\circ} - 180^{\circ} - 93^{\circ} - 42^{\circ} = 45^{\circ}$	
Q8)	180° – 88° = 92°	
·	92° ÷ 2 = 46°	
	$(180^{\circ} - 48^{\circ}) \div 2 = 66^{\circ}$	
	66° – 46° = 20°	
Q9)	26 ÷ 2 = 13	<u> </u>
• = <b>;</b>	3.14 x 13 x 13 = 530.66	
•	26 - 2 - 2 = 22	
	22 ÷ 2 = 11	
	3.14 x 11 x 11 = 379.94	
•	530.66 - 379.94 = 150.72	
•	11 ÷ 2 = 5.5	
	3.14 x 5.5 x 5.5 = 94.985	
	94.985 x 2 = 189.97	
	189.97 + 150.72 = 340.69 cm <sup>2</sup>	
Q10)	163 ÷ 35 = 4 R 23	
	$0.45 \times 23 = 10.35$	
	$4 \times 35 = 140$	·
	$0.45 \times 140 = 63$	
	95.35 - 10.35 = 85	
	85 - 63 = 22	
	22 ÷ 4 = \$5.50	
Q11)	a)22 x 2 = 44	<u></u>
	9 x 22 x 44 = 8712	_
	10230 - 8712 = 1518ml	
• -	b)1518 ÷ 2 = 759	
	$759 \times 3 = 2277ml$	
Q12)	1 + 5 =6	
	6 – 1 = 5	
	$3480 \times \frac{3}{4} = 2610$	
!	$2610 \times \frac{5}{6} = $2175$	

A 4 - 5	
Q13)	14 x 2 = 28
	25 x 2 = 50
	$\pi \times 28 \times ^{3} / = 21\pi$
	$\pi \times 28 \times \frac{1}{2} = 14\pi$
	$14\pi + 21\pi + 50 + 28 = 78 + 35\pi$
	$(78 + 35\pi)$ cm
Q14)	a)10 ÷ 2 = 5 min
	b)Tap A whole tank -10min Tap B whole tank5min
	$\frac{1}{10} \text{ of } \tanh - 1 \min$ $\frac{1}{5} \text{ of } \tanh - 1 \min$
	10
	$\frac{1}{5} + \frac{1}{10} - 1 \text{ min}$
	$=\frac{3}{10}$
	10 ÷ 3 = $3\frac{1}{3}$ minute
Q15)	850 x 45 = 38250
	849 x 45 - 1 x 39
	= 38166
	38250 - 38166 = 84
	38250 – 12210 = 26040 26040 ÷ 84 = 310 (pairs of male shoes)
	$20040 \pm 64 - 310$ (pairs of male shoes)
	12090 ≈ \$12100
Q16)	$a)_{4}^{3} \times \frac{3}{5} = \frac{9}{20}$
!	. 14 · 5 20
	b)9u + 252 = 15u
:	15 – 9 = 6
	$252 \div 6 = 42$
	42 x 20 = 840 muffins
Q17)	a)9:8
	b)8 : 9 : 3
	8 oranges = 4 x 2 = 8
	Cost of 8 oranges = 2 x 3 = 6
	9 apples = 3 x 3
	Cost of 9 apples = 3 x 2 = 6
	Coat of 3 melons = $3 \times 9 = 27$
	Cost of 1 group = 27 + 6 + 6 = 39
	936 ÷ 39 = 24 (group)
	1 group = 8 oranges + 9 apples + 3 melons = 20 fruits

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# RIVER VALLEY PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 2019 MATHEMATICS

PRIMARY SIX

Name	:	(	)
Class	: Primary 6 (		
Date	: <u>17 May 2019</u>		
Duratio	n: 60 min (Total time for Booklets A an	<u>d B)</u>	

### PAPER 1

(BOOKLET A)

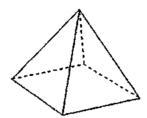
### INSTRUCTIONSTO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 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 on 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 (1, 2, 3 or 4) on the Optical Answer Sheet.

- 1. What does the digit 5 in 4.153 stand for?
  - (1) 5 ones
  - (2) 5 tenths
  - (3) 5 hundredths
  - (4) 5 thousandths
- 2. Machine A can pack 1000 boxes in an hour. Machine B can pack 800 similar boxes in an hour. At these rates, how many more boxes can Machine A pack than Machine B in 6 hours?
  - (1) 10800
  - (2) 6000
  - (3) 4800
  - (4) 1200
- $3. \qquad 40 + \frac{4}{100} + \frac{4}{1000} =$ 
  - (1) 40.044
  - (2) 40.404
  - (3) 40.440
  - (4) 44.040

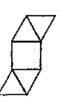
4. Which of the following is not a net of this figure?



(1)



(2)



(3)

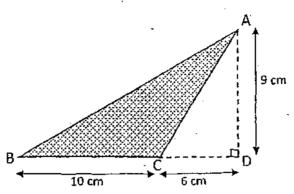


(4)

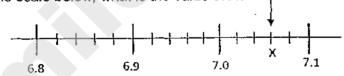


- 5. 40% of a number is 240. What is the number?
  - (1) 96
  - (2) 144
  - (3) 600
  - (4) 960

6. What is the area of the shaded triangle ABC below?



- (1) 27 cm<sup>2</sup>
- (2) 45 cm<sup>2</sup>
- (3) 72 cm<sup>2</sup>
- (4) 90 cm<sup>2</sup>
- 7. In the scale below, what is the value of X?



- (1) 7.075
- (2) 7.06
- (3) 7.6
- (4) 7.3

- 8. Rashid took 50 min to walk from his house to the park and back. If his average speed for the whole journey was 30 m/min, what was the distance between his house and the park?
  - (1)  $1\frac{2}{3}$  m
  - (2)  $\frac{3}{5}$  m
  - (3) 750 m
  - (4) 1500 m
- 9. Siti has  $\frac{4}{5}$  m of cloth. She used  $\frac{1}{4}$  of it. How much cloth did she have left?
  - (1)  $\frac{1}{5}$  m
  - $(2) \frac{3}{5} \text{ m}$
  - (3)  $\frac{9}{20}$  m
  - $(4) \frac{11}{20} \text{ m}$
- 10. Which of the following is likely to be the height of the school's flagpole?
  - (1) 45 cm
  - (2) 450 cm
  - (3') 45 m
  - (4) 450 m

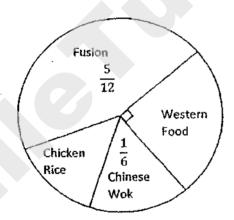
Mrs Sim had \$20. After buying 4 identical files, she had \$m left.
 Express the cost of 1 file in terms of m.

$$(1)$$
  $(\frac{20-m}{4})$ 

$$(2)$$
 \$  $(20 - \frac{m}{4})$ 

$$(4)$$
  $(\frac{20m}{4})$ 

12. The pie chart shows the favourite stalls of the pupils in Primary 6. Each pupil could only choose one stall.



- 48 more pupils chose the Fusion stall than the Western Food stall as their favourite stall. How many Primary 6 pupils were there altogether?
- (1) 72
- (2) 120
- (3) 192
- (4) 288

13. A shop was selling mobile phones at a discount of 15%. As a member of the shop, Mr Lee received an additional 10% discount on top of the discounted price. In the end, he paid \$765 for a mobile phone. What was the total discount that Mr Lee received? (1)\$85 (2) \$150 (3) \$235 (4) \$1000 14. Alice and Candice have a total of \$128. Candice and Belinda have a total of \$78. Alice has three times as much money as Belinda. What is the average amount of money the three dirls have? (1)\$51 (2) \$75 (3) \$153 \$206 (4)15. A rope was first cut into 2 pieces in the ratio of 3: 2. The longer piece was then cut into 2 pieces in the ratio 3:1. Among the three pieces, the longest piece was 18 cm. What was the original length of the rope before it was first cut? (1)24 cm (2) 30 cm (3) 36 cm (4) 40 cm

## RIVER VALLEY PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 2019 MATHEMATICS

# MATHEMATICS PRIMARY SIX

(BOOKLET B)

Name	÷	(	)
Class	: Primary 6 (		
Date	: <u>17 May 2019</u>		
Duratio	on: 60 min (Total time for Booklets A	and B)	
	PAPE	R 1	

### **INSTRUCTIONSTO CANDIDATES**

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are not allowed to use a calculator.

### SUMMARY OF MARKS:

			Questions	Marks Awarded	Maximum Marks
Paper	Booklet A	MCQ	1 – 15		20
i	Booklet B	SAQ	16 30		25
Paper		SAQ	1 – 5		10
Ž		LAQ	6 - 17		45
		Total			100

Parent's Signature :	

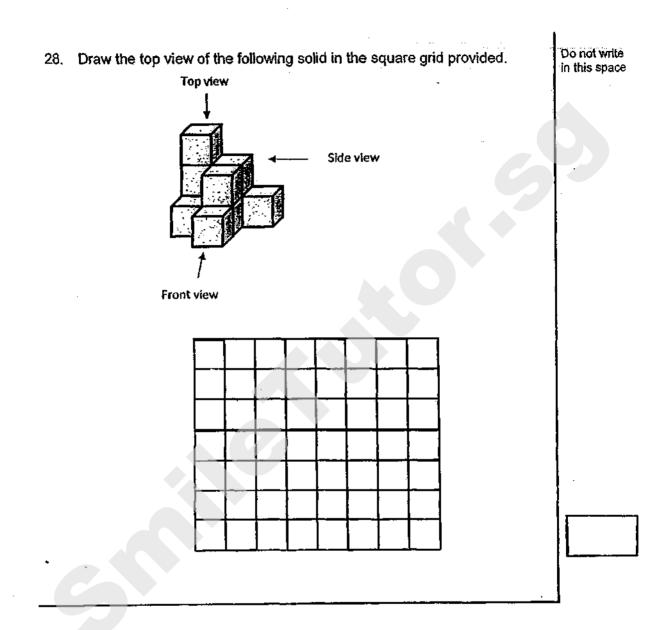
Que prov unita	Do not write in this space	
16.	Write two hundred and five thousand and eighty-four in numerals.	
	Ans:	
17.	64 099 people watched a match at the stadium. Round off the number of people to the nearest hundred.	
	Ans:	
18.	Measure and write down the size of $\angle$ f.	
	f .	
	Ans:•	

19.	Find the value of 1.08 x 40	Do not write in this space
	Ans:	
20	Express $\frac{7}{9}$ as a percentage. Give your answer to the nearest	
	1 decimal place.	
	Ans:	_%

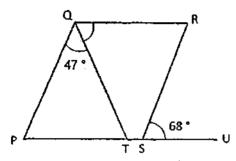
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks) Do not write in this space 21. Shade two more boxes in the square grid below so that Line XY is the line of symmetry. Ans: The volume of a cube is 64 cm<sup>3</sup>. Find the total area of all the faces of the cube. cm² Ans \_\_\_

23.	Two whole numbers add up to 623. One of them is a 2-digit number and the other is a 3-digit number. What is the largest possible difference between the two numbers?	Do not write in this space
	Ans:	
24.	The table shows how much a shop charges for dry-washing services.	
	First 5 jackets \$50 Each additional jacket \$8	·
	Mrs Wong paid \$98 to dry wash some jackets. How many jackets did she send to dry wash?	
	Ans:	L
	·	
<b>2</b> 5.	Bee Ling had 1080 red, blue and yellow beads. She had 20 more blue beads than red beads. She had 3 times as many yellow beads as blue beads. How many yellow beads did Bee Ling have?	
	Ans:	

26. Do not write A box contains marbles of three different colours.  $\frac{2}{5}$  of the marbles are In this space blue. The ratio of the number of red marbles to that of the green marbles is 3: 4. There are 16 more blue than green marbles. How many red marbles are there? 27. The grid below shows a straight line AB. Draw another straight line that is parallel to Line AB and passes through Dot C.



29. In the figure below, PQRS is a parallelogram. PTSU is a straight line.  $\angle$  PQT = 47° and  $\angle$ RSU = 68°. Find  $\angle$ RQT.



		ł
Ans:	°	<b>J</b>

30. Last year, Weiting saved an average of \$80 per month from January to November. She did not save any money in December.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a  $(\checkmark)$  in the correct column.

Statement	True	False	Not possible to tell
a) Weiting saved a total of \$950 last year.			
b) The average amount of money that Weiting saved from January to November was higher than the average amount of money she saved from January to December.			·

## RIVER VALLEY PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 2019

## MATHEMATICS PRIMARY SIX

Name	:	( )
Class	: Primary 6 (	
Date	: <u>17 May 2019</u>	
Duratio	n: <u>1 h 30 min</u>	

### PAPER 2

#### INSTRUCTIONS TO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all Instructions carefully.
- 4. Answer all questions,
- 5. You are allowed to use a calculator.

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 in the units stated. (10 marks)

1. Asree bought the bag shown in the advertisement below. She still had to pay 7% GST after the discount. How much did she pay for the bag?

Do πot write in this space



Ans: '\$\_\_\_\_

2. Mr Ding had 84 more haversacks than Mr En at first. After Mr En sold 25 haversacks to Mr Ding, Mr Ding had 3 times as many haversacks as Mr En. How many haversacks did Mr En have at first?

Ans : \_\_\_\_\_

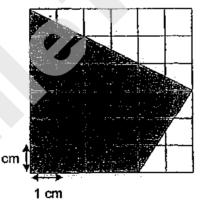
3. Chong and Dan had some money. Chong spent  $\frac{1}{3}$  of his money on a meal and Dan spent  $\frac{1}{4}$  of his money on a file. Both boys had an equal amount of money left. If Chong had \$15 more than Dan at first, how much money did the 2 boys have altogether at first?

Do not write in this space

Ans:

\$

4. What is the area of the shaded figure drawn on the 1-cm square grid below?

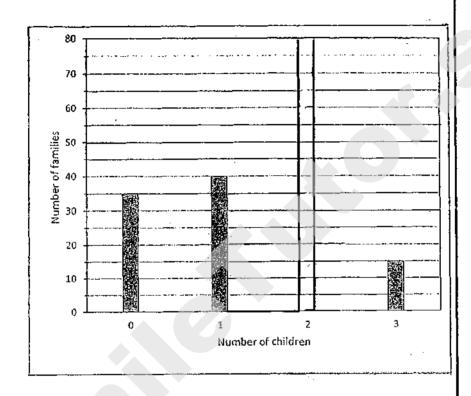


Ans:

(

5. The bar graph shows the number of children in the families living in a block of flats.  $\frac{2}{s}$  of the families in the block of flats have 2 children. Draw the bar that shows the number of families with 2 children.

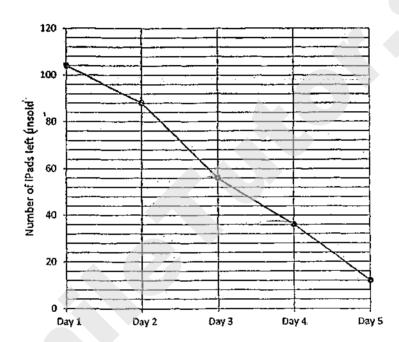
Do not write in this space



For questions 6 to 17, 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. (45 marks)

 A shop offered 120 iPads at a discount during a 5-day sale. The line graph below shows the number of iPads left unsold at the end of each day.

Do not write in this space



- (a) On which day was the most number of iPads sold?
- (b) What percentage of the 120 iPads were sold in the first 2 days of the sale? Leave your answer correct to 1 decimal place.

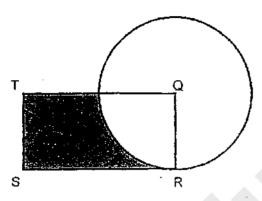
Ans:	(a)	 (1)

(2,

7.	Mrs T	an paid \$m for 3 pies and 2 cakes. Each pie cost \$4.	Do not write in this space
	(a) <sup>-</sup>	How much did each cake cost? Leave your answer in terms of $\it m$ .	
	. à(b) .	How much did each cake cost when $m = 120$ ?	
		Ans: (a)(1)	
8.	exactl chairs in eac	enction room, chairs were arranged in rows such that there were y 11 chairs in each row. After lunch, Pavan brought 6 more into the room and rearranged all the chairs into exactly 8 chairs in row. As a result there were 12 more rows than before. How chairs were there in the function room before lunch?	
		_	
		Ans :(3)	

9. The figure below is made up of a rectangle and a circle. Q is the centre of the circle. The radius of the circle is 14 cm. QRST is a rectangle and RS = 34 cm. Use the calculator π to find the perimeter of the shaded part of the rectangle. Leave your answer correct to 2 decimal places.

Do not write in this space



Ans:\_\_\_\_\_(3)

10.	A van left Town A for Town B travelling at an average speed of 92 km/h for the first 30 minutes of the journey. Then the van drove another 32 km at an average speed of 80 km/h before reaching Town B. What was the average speed of the van for the whole journey?	Do not write In this space
	Ans :(3)	
11.	Cheryl, Dewi and Eli spent some money. The ratio of the amount of money Cheryl spent to the total amount of money Dewi and Eli spent was 3:4. Dewi spent $\frac{2}{3}$ as much money as the total amount of money spent by Cheryl and Eli. Cheryl spent \$369 more than Eli. How much money did Dewi spend?	
	Ans :(3)	

12. Kris bought an equal number of apples, pears and lemons to make some pies for a charity sale. The prices of the fruits are shown below. The total amount she paid for the apples and lemons was \$66 more than the amount she paid for the pears. How much money did Kris pay altogether for the fruits she bought?

Do not write in this space







Apples 5 for \$4

Pears 3 for \$2 Lemons 10 for \$6

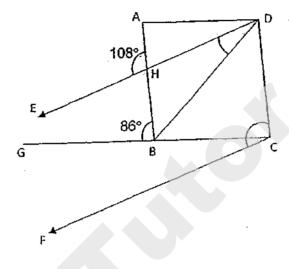
Ans :\_\_\_\_\_(4

13 In the figure below, ABCD is a rhombus and DE // CF.

 $\angle$ ABG = 86° and  $\angle$ AHE = 108°.

- (a) Find ∠BDE
- (b) Find ∠DCF





Ans:

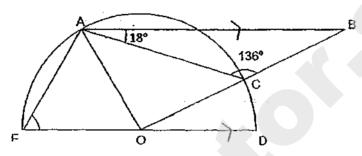


(b)\_\_\_\_(2)

14. The figure below shows a semicircle with centre O and three Do not write triangles, ABC, ACO and AEO. AB is parallel to ED, ∠ACB = 136° and  $\angle BAC = 18^{\circ}$ .

in this space

- (a) Find ∠COD.
- (b) Find ∠AEO.



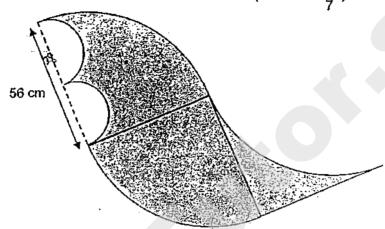
Ans: (a) (2)

> (b)\_ (2)

- 15. The figure below is made up of quadrants and semicircles.
- Do not write in this space

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

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



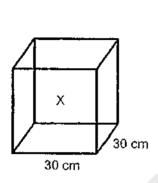
Ans:

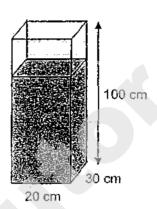
(b)\_\_\_\_\_

June and Kelvin have a collection of game cards. If June gives Kelvin 16. Do not write in this space half of her game cards, Kelvin will have 72 more game cards than June. If June gives Kelvin  $\frac{1}{6}$  of her game cards, she will have 16 fewer game cards than Kelvin. How many game cards do they have in all?

17. Grandma has 2 rectangular tanks, Tank X and Tank Y. Tank X is an empty container with a square base of sides 30 cm. Tank Y measures 20 cm by 30 cm by 100 cm. Tank Y was  $\frac{4}{5}$  filled with water at first.

Do not write in this space





Grandma then poured some water from Tank Y into Tank X until the height of the water in Tank X became 2 times the height of the water in Tank Y.

- (a) How much water was in Tank Y at first?
- (b) What was the height of the water in Tank X in the end?

Ans :	(a)	(1)	•
	4.5		

- End of Paper 2

SCHOOL :

RIVER VALLEY PRIMARY SCHOOL

LEVEL

**PRIMARY 6** 

SUBJECT:

MATH

TERM

2019 SA1

### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	1	3	3	2	2	3	2	2

Q 11	Q12	Q13	Q14	Q15
1	4	3	1	4

### **PAPER 1 BOOKLET B**

Q16)	205084
Q17)	64100
Q18)	36°
Q19)	43.2
Q20)	77.8%
Q21)	Y
Q22)	4 X 4 X 6= 96cm <sup>2</sup>
Q23)	Need a home tutor? Visit smiletutor.sc

Q24)	11
Q25)	660
Q26)	72
Q27)	A
Q28)	
Q29)	65°
Q30)	a)False b)True

## PAPER 2

Q1)	80% x 125 = 100 107% x 100 = \$107	
Q2)	$3U - 1U = 2U$ $2U \rightarrow 25 + 84 + 25 = 134$ $1U \rightarrow 134 \div 2 = 67$ $67 + 25 = 92$	
Q3)	$9U - 8U = 1U$ $1U \rightarrow 15$ $17U \rightarrow 17 \times 15 = $255$	
Q4)	$6 \times 6 = 36$ $\frac{1}{2} \times 6 \times 3 = 9$	Need a home tutor? Visit smiletutor.sc

	$1 \times 2 \times 2 = 2$
	$\frac{1}{2} \times 3 \times 2 = 3$
Q5)	$\begin{array}{c c} 36 - 9 - 3 = 24 \text{ cm}^2 \\ \hline 5 & 2 & 3 \end{array}$
QUI	$\frac{\frac{5}{5} - \frac{2}{5} = \frac{3}{5}}{\frac{3}{5} \to 35 + 40 + 15 = 90}$ $\frac{\frac{2}{5} \to \frac{90}{3} \times 2 = 60}{\frac{90}{3} \times 2 = 60}$
	$\left  \frac{3}{5} \right  \rightarrow 35 + 40 + 15 = 90$
	$\left \frac{2}{7} \rightarrow \frac{90}{7} \times 2 = 60\right $
	50
	70
	50
	3 50
	50 40 40 30 40 40 40 40 40 40 40 40 40 40 40 40 40
	§ 30
	20
	10
	0 1 2 3
	Number of children
-	
Q6)	a)Day 3
}	b)120 - 104 = 16 104 - 88 = 16
	16 + 16 = 32
	$\frac{32}{120} \times 100\% = 26.66 \approx 26.7\%$
	120 × 100 /0 = 20.7 /0
Q7)	$a)4 \times 3 = 12$
'	$=\$(\frac{m-12}{2})$
	$\begin{array}{c} b)120 - 12 = 108 \\ 108 \div 2 = \$54 \end{array}$
	100 - 2 - \$34
Q8)	12 x 8 = 96
GO	96 - 6 = 90
	11 - 8 = 3
	90 ÷ 3 = 30
	11 x 30 = 330
Q9)	34 – 14 = 20
	$\pi \times 28 \times \frac{7}{4} = 7\pi$ Need a home tutor? Visit smiletutor.sg

	$7\pi + 34 + 14 + 20 = 89.99cm$
Q10)	
	A
	92km/h 32km
<u> </u>	92km/h x $\frac{1}{2}$ h= 46km
	$32\text{km} \div 80\text{km/h} = \frac{2}{5}\text{h}$
	46 + 32 = 78
	$78 \div (\frac{2}{5} + \frac{1}{2}) = 86.6 \text{km/h}$
	$=86\frac{2}{3}$ km/h
_	
Q11)	
	9u→369
	$14u \rightarrow \frac{369}{9} \times 14 = $574$
	y
Q12)	72 + 60 + 54 = \$186
Q13)	
	$< \text{HBD} = (180^{\circ} - 86^{\circ}) \div 2 = 47^{\circ}$
	$< BDE = 180^{\circ} - 47^{\circ} - 108^{\circ} = 25^{\circ}$
	b)180° - 86° - 72° = 22°
	86° + 22° = 108°
	00 1 22 100
Q14)	a) $< ABC = 180^{\circ} - 136^{\circ} - 18^{\circ} = 26^{\circ}$
	$< ABC = < COD = 26^{\circ}$
	b) $< ACO = 180^{\circ} - 136^{\circ} = 44^{\circ}$
4	$< AOC = 180^{\circ} - 44^{\circ} - 44^{\circ} = 92^{\circ}$
	$< AOE = 180^{\circ} - 92^{\circ} - 26^{\circ} = 62^{\circ}$
	$< AEO = (180^{\circ} - 62^{\circ}) \div 2 = 59^{\circ}$
İ	·
Q15)	a)56 + 56 = 112
	$\frac{22}{7} \times 112 \times \frac{1}{4} = 88$
	$\frac{22}{7} \times 28 \times \frac{1}{2} \times 2 = 88$
	$\frac{7}{88 \times 3} + 88 = 352$
	352 + 56 = 408cm
•	
	1,,22
Ĺ	$b)^{\frac{22}{7}} \times 56 \times 56 \times \frac{1}{2} = 4928$

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	$\frac{22}{7} \times 14 \times 14 = 616$ $4928 - 616 = 4312$ $(56 \times 56) - \left(\frac{22}{7} \times 56 \times 56\right)$ $4312 + 672 = 4984cm$	1/	2	
Q16)	<u>J : K</u> 2U 72 -1U +1U 1U 1U+72	-	J : 6p -1p 5p	<u>K</u> 4p+16 +1p 5p+16
	4p + 16 = 72 4p = 72 - 16 = 56 1p = 56 ÷ 4 = 14 14 × 10 = 140 140 + 16 = 156			
Q17)	X 2u 30	000ml BA x 30 = 900 x 30 = 600		<u>volume</u> 1800u
	48000 ÷ 2400 = 20 20 × 2 = 40cm	X 30 - 600		<u>600u</u> 2400u





# Rosyth School Mid-Year Examination 2019 MATHEMATICS Paper 1 Primary 6

Name:		Register No.
Class:	Pr 6	
Date:	15 May 2019	Parent's Signature:
Total T	ime for Booklets A and B:	1 hour
<del></del>		

#### **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 <u>not</u> allowed to use a calculator.
- 5. Answer all questions.

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

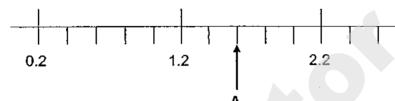
<sup>\*</sup> This booklet consists of 8 pages (including this cover page)

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.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

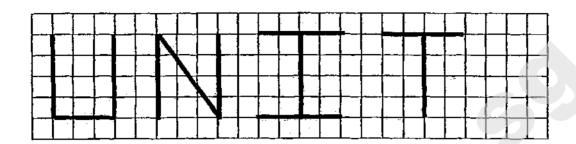
1. Part of a scale is shown below. What is the value of the reading at A?



- (1) 1.23
- (2) 1.26
- (3) 1.5
- (4) 1.6

- 2. Which of the following fractions is the largest?
  - (1)  $\frac{3}{8}$
  - (2)  $\frac{3}{4}$
  - (3)  $\frac{3}{11}$
  - (4)  $\frac{3}{5}$

3. In the diagram below, the letters U, N, I and T are drawn on a square grid.



Which letters have both parallel and perpendicular lines?

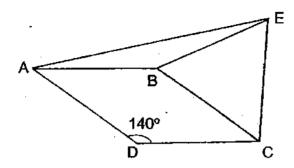
- (1) U and N only
- (2) U and I only
- (3) N and I only
- (4) I and T only
- 4. The table below shows the time taken by 4 runners in a 400 m competition.

Swimmer	Time taken (seconds)
Amelia	83.2
Banu	81.8
Caden	92.9
Decaf	92.1

Who came in 3rd in the competition?

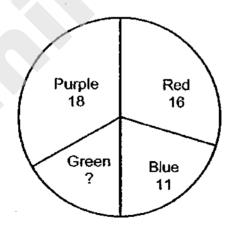
- (1) Amelia
- (2) Banu
- (3) Caden
- (4) Decaf

5. In the figure below, ABCD is a rhombus and BEC is an equilateral triangle. Find ∠ABE.



- (1) 40°
- (2) 140°
- (3) 160°
- (4) 200°
- 6. The pie chart represents the favorite colour chosen by a group of students. Half of them chose red and blue. How many students chose green?

**Favorite Colours** 



- (1) 7
- (2) 9
- (3) 18
- (4) 25

- 7. Claire had \$6. She bought 2 identical hair clips and had \$9 left. What was the cost of each hair clip?
  - (1) \$(3-2y)
  - (2)  $\$ (6 \frac{y}{2})$
  - (3) \$ (6 2y)
  - (4)  $\$(\frac{6-y}{2})$

- 8. Alynna has 70 beads, 14 are red and the rest are blue. What is the ratio of the number of red beads to the number of blue beads?
  - (1) 1:4
  - (2) 1:5
  - (3) 4:1
  - $(4) \cdot 4:5$
- 9. The coffee shop is 500 m from Han's house. Han took 10 minutes to walk to the coffee shop and back to his house. What was Han's average walking speed?
  - (1) 25 m/ min
  - (2) 50 m/ min
  - (3) 100 m/ min
  - (4) 250 m/ min

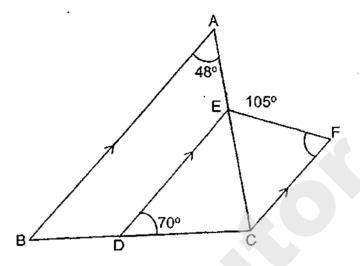
- 10. A supermarket sold 50 oranges for \$20. How much did each orange cost?
  - (1) 25¢
  - (2) 40¢
  - (3) 50¢
  - (4) 4¢
- 11. Boston gave  $\frac{1}{6}$  of his salary to his mother and spent  $\frac{1}{3}$  of the remainder. What fraction of his salary did he have left?
  - (1)  $\frac{1}{18}$
  - (2)  $\frac{1}{2}$
  - (3)  $\frac{5}{9}$
  - (4)  $\frac{2}{3}$
- 12. The parcel rates to two countries is shown below.

Mass Step	China	United States
First 1 kg	\$4	\$8
Every additional 250 g	\$1.50	\$5

Alicia sent a parcel weighing 1.9 kg to China and a parcel weighing 850 g to the United States. How much did she pay altogether?

- (1) \$18
- (2) \$18.50
- (3) \$20
- (4) \$22

13. The figure below is made up of a triangle, ABC and a trapezium, CDEF. The line AB is parallel to the line DE. Find ∠CFE.

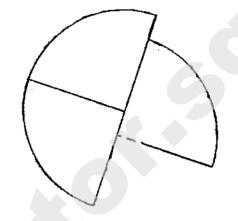


- (1) 52.5°
- (2) 57°
- (3) 61°
- (4) 70°
- 14. Kieren has 2 rectangular boxes A and B. Both Box A and Box B have square bases of different sizes. The length of the square base of Box A is twice the length of the square base of box B. Both boxes have the same height.

He packed 192 identical cubes exactly into the larger box. How many such cubes can be packed exactly into the smaller box?

- (1) 12
- (2) 24
- (3) 36
- (4) 48

- 15. The figure shown below is formed by 3 identical quadrants of radius 7 cm. Find the perimeter of the figure. Take  $\pi = \frac{22}{7}$ 
  - (1) 47 cm
  - (2) 58 cm
  - (3) 115.5 cm
  - (4) 154 cm





# Rosyth School Mid-Year Examination 2019 MATHEMATICS Paper 1 Primary 6

Name:	Register No.
Class: Pr 6	Group:
Date: 15 May 2019	Parent's Signature:
Total Time for Booklets A and	B: 1 hour

### **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. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

<sup>\*</sup> This booklet consists of <u>8</u> pages (including this cover page).

Questions 16 to 20 carry 1 mark each. 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

All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

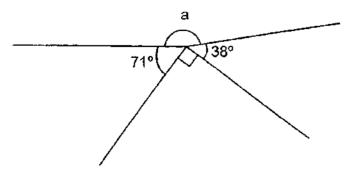
16. Find the value of  $4 \times (18 - 5) + 36 \div 4$ .

Ans:			

17. How many eighths are there in  $1\frac{1}{4}$ ?

Ans: _	L	 

18. In the figure below, find  $\angle a$ .



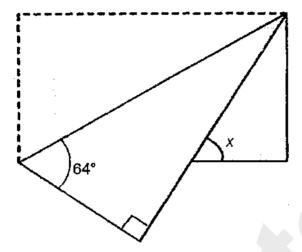
Ans: \_\_\_\_\_ o

19.	Edward collected 40 kg of paper for recycling this month. Last month, he collected 25 kg of paper. What is the percentage increase in paper he collected this month?	Do not write in this space
	Ans:%	
20.	Draw a line of symmetry in the figure shown below.	

provi	stions 21 to 30 carry 2 marks each. Show your workings clearly in the space ided for each question and write your answers in the spaces provided. questions which require units, give your answers in the units stated.	Do not write in this space
All a	liagrams in this paper are not drawn to scale unless stated otherwise. (20 marks)	
21.	Jane bought 36 pencils and 45 chocolates for Children's Day. Each pupil received the same number of pencils and chocolates. What is the maximum number of pupils who can receive the pencils and chocolates?	
	Ans:	
22.	Ming San has just enough money to buy 15 apples. If the price of each apple is reduced by \$0.20, she will be able to buy another 6 apples with the same amount of money. What is the original price of each apple?	
	Ans: \$	
23.	At a cinema, the ratio of the number of adults to the number of children was 5:2. The ratio of the number of men to the number of women was 1:2. What was the ratio of the number of women to the number of children? Express your answer in the simplest form.	
	Ans:	

24. A rectangular piece of paper was folded as shown below. Find  $\angle x$ .

Do not write in this space



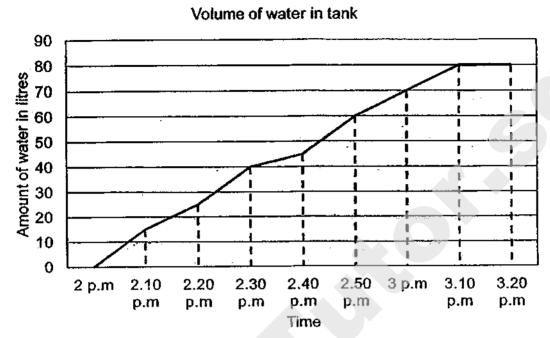
Ans: \_\_\_\_ '

25. Three pupils spent the same amount of money to buy an identical book. Gabriel used  $\frac{1}{7}$  of his money. Paul used  $\frac{2}{5}$  of his money and James used  $\frac{3}{4}$  of his money. They had a total of \$150 at first.

Statement	True	False	Not possible to tell
a) The sum of Gabriel's and Paul's money is twice as much as James.			
b) Each of them spent \$50 to buy the book.	<del></del>		

26. At 2 p.m., Zac started filling an empty tank with water. The line graph shows the volume of water in the tank from 2 p.m. to 3.20 p.m.

Do not write in this space



- (a) What is the volume of the tank?
- (b) At what time was  $\frac{3}{4}$  of the tank filled with water?

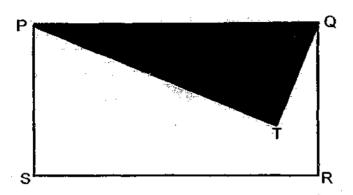
Ans: (a)		Γ
Ans: (b)	p.m.	

27. Find the value of  $\frac{8r}{3} - 2r + 1$  when r = 4. Express your answer as a mixed number in the simplest form.

Ans:

28.	In the figure below, PQRS is a rectangle and PQT is a triangle. The length
	of PQ is 13 cm. The difference between the perimeter of the unshaded
	figure PTQRS and the perimeter of triangle PQT is 16 cm.
	Find the area of rectangle PQRS.

Do not write in this space



Ans: \_\_\_\_\_cm²

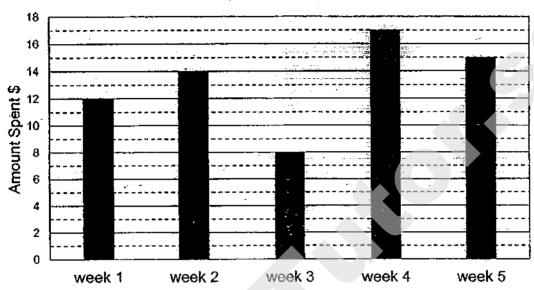
29. A student use a calculator to divide a number by one thousand. He made a mistake and pressed 2 fewer zeroes. He obtained an answer of 23.3. What should the correct answer be?

Ans: \_\_\_\_

30. Chloe received a pocket money of \$20 each week. The bar graph shows the amount she spent over 5 weeks.

Do not write in this space





- (a) In which week did Chloe save the most amount of money?
- (b) What was the average amount of money Chloe spent over the 5 weeks?

Ans: (a) week \_\_\_\_\_

Ans: (b) \$ \_\_\_\_\_



### **Rosyth School Mid-Year Examination 2019 MATHEMATICS** Paper 2 Primary 6

Name:	Register No.
Class: Pr 6	
Date: 15 May 2019	Parent's Signature:
Time: 1 h 30 min	
·····	

#### 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 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	-
Paper 2	55	
Total	100	

<sup>\*</sup> This booklet consists of 14 pages (including this cover page).

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This paper is not to be reproduced in part or whole without the permission of the Principal. It 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)  All diagrams in this paper are not drawn to scale unless stated otherwise.				
1.	Joslyn bought 3 kg of rice. She used $\frac{5}{8}$ of it. How much rice is left? Give your answer in grams.			
	Ans:g			
2.	Jeroen finished watching a movie at 8.50 p.m. The movie was 2 hours 15 minutes long. At what time did Jeroen start watching the movie?			
	Ans:p.m.			
3.	There were 84 red beads and 57 blue beads in a container. Wendy added an equal number of blue and red beads into it. The ratio of the number of red beads to the number of blue beads became 11:8. How many red beads were there in the end?			
	Ans:			

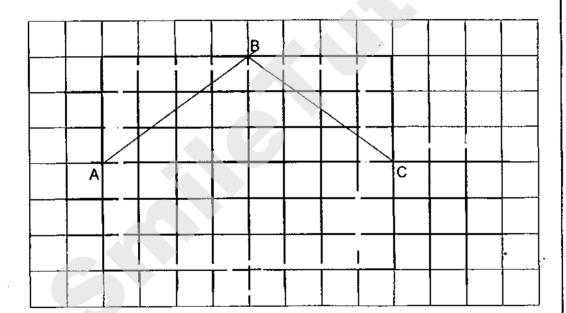
4.	The cost of 3 pencils and 2 rulers is \$(5j + 4). The cost of a ruler is 50-cents more than a pencil. What is the cost of 1 pencil? Give your answer in terms of j in the simplest form.	Do not write in this space
5.	Deborah and Alynna started cycling from the same place but in the opposite directions. Deborah cycled at a constant speed of 20 km/h while Alynna cycled at a constant speed of 12 km/h. How far apart will they be after 3 hours?	,
·		
	-	
	Ans: km	

For Questions 6 to 17, show your working clearly in the space provided for each Do not write question and write your answers in the spaces provided. The number of marks in this space available is shown in brackets [ ] at the end of each question or part-question. For questions which require units, give your answers in the units stated.

(45 marks)

All diagrams in this paper are not drawn to scale unless stated otherwise.

- In the square grid below, AB and BC are straight lines. 6.
  - Measure and write down the size of ∠ABC. (a)
  - Draw two more straight lines to complete a rhombus ABCD. (b) Label Point D.

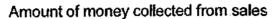


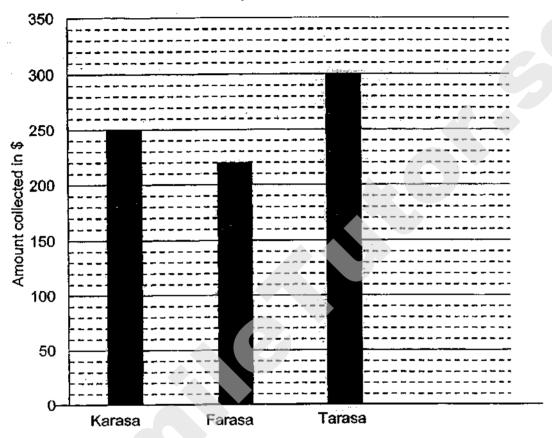
[2]

Ans: (a) \_\_\_\_\_

7. The graph below shows the amount collected from the sale of 3 different types of pen in March.

Do not write in this space





Type of pen

- (a) What was the total amount collected from the sale of the 3 types of pen?
- (b) The cost of a Tarasa pen was 40 cents. How many Tarasa pens were sold in March?

Ans: (a) \_\_\_\_\_[1]

Ans: (b) \_\_\_\_\_[2]

8. A repeated pattern is formed using the numbers 0, 1, 2, 3 and 4. The first 18 numbers are shown below.

Do not write in this space

1	4	2	 3	1	4	2	0	3	1	4	2	0	3	1	4	2	
1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>														18 <sup>th</sup>	_

- (a) What is the 103th number?
- (b) What is the sum of the first 52 numbers?

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

9. Mrs Mok and Mrs Kang were given a certain number of days to sew the same number of cushion covers.

Mrs Mok sewed an average of 24 cushion covers a day, and she took 5 days more.

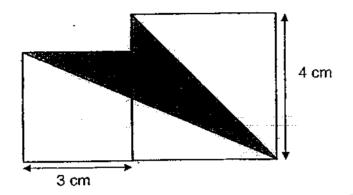
Mrs Kang sewed an average of 30 cushion covers a day, and she finished sewing her cushions 4 days earlier.

How many days were they given to finish sewing the cushions?

Ans:	[3]	

10. The figure is made up of 2 squares. Find the shaded area.

Do not write in this space



Ans: [3]

The diagram below shows a wooden solid.

Draw the Front, Top and Side view of the solid in the grids provided. 11. Do not write in this space Тор Side Front View Front view Top view Side view [3]

12.	Tom and Lily baked a total of 1539 cupcakes. Tom sold thrice as many cupcakes as Lily. In the end, the number of cupcakes Lily had left was 58
	more than what she had sold. Lily had twice as many cupcakes left as Tom.

Do not write in this space

- (a) How many cupcakes did Tom bake at first?
- (b) How many cupcakes did Lily sell?

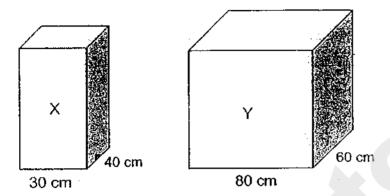
Ans: (a) _	 _[2]

Ans: (b) _	 _ (	[2]	ĺ

13. Janelle had 2 different rectangular tanks of the same height as shown below. She filled them up with water to the same height.

Do not write in this space

She filled tank Y with 100.8 litres more water than tank X.



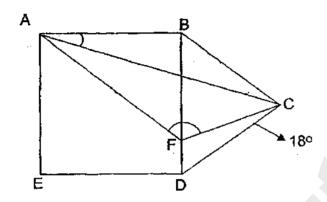
What was the height of the water level in both tanks?

Ans: \_\_\_\_\_ \_\_\_ [41] [ \_\_\_\_\_]

14. In the figure below, ABDE is a square and BCD is an equilateral triangle. AF is parallel to BC.

Do not write in this space

- (a) Find ∠BAC.
- (b) Find ∠AFC



Ans: (a) \_ \_\_\_\_[2]

Ans: (b) \_\_\_\_\_\_[2]

15. Julia bought a dress and a skirt at a discount from a store. She was given a discount of 25% for the dress. For the skirt, a discount was also given. She saved a total of \$31.20.

Do not write in this space

She paid a total of \$120.80 for the 2 items. She paid \$5.20 more for the dress than the skirt.

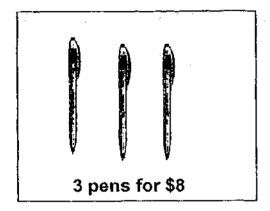
- (a) What was the price of the dress without the discount?
- (b) What was the percentage discount given for the skirt?

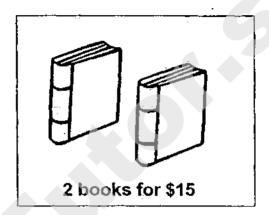
Ans: (a)	[2]	٦ ٦
Ans: (b)	(31	

16. The number of books sold was 4 more than the number of pens sold at a sale. Aaron collected \$1006 altogether.

Do not write in this space

- (a) How many pens was sold?
- (b) How much money was collected from the sale of his books?



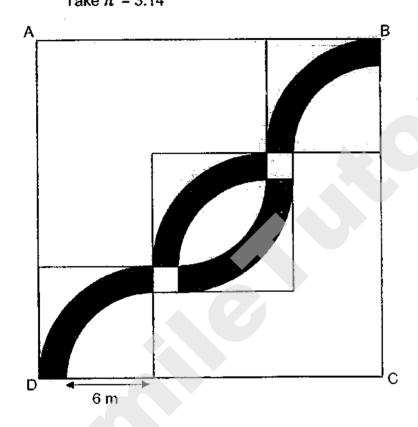


Ans: (a)[2]	\
Ans: (b)	

17. A pattern is set into a big square ABCD shown below. The pattern is made up of identical quadrants of 2 different sizes. Two small squares of side 2 m are used to connect all the quadrants.

Do not write in this space

- (a) What is the perimeter of the big square ABCD?
- (b) Find the area of the unshaded parts. Take  $\pi = 3.14$



Ans: (a)	 Γ
Ans: (b)	 _

SCHOOL: ROSYTH PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT:

MATH

TERM : 2019 SA1

# PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	2	4	3	2	4	1	3	2

Q 11	Q12	Q13	Q14	Q15
3	1	2	4	1

# PAPER 1 BOOKLET B

_			
Q16)	4 X 13 = 52		
	52 + 9 = 61		
Q17)	$1\frac{1}{4} = 1\frac{2}{8}$		
	$1\frac{2}{8} \div \frac{1}{8} = 10$		
Q18)	90° + 71° = 1	61°	
	161° + 38° =	199°	
	360° – 199° =	= 161°	
Q19)	$\frac{15}{25} \times 100\%$		
	$=\frac{3}{5}\times 100\%$		
	= 60%		
Q20)			
Q21)	36 = 1 x 36	45 = 1 x 45	
4217	$= 2 \times 18$	= 3 x 15	
	$= 3 \times 12$	$= 5 \times (9)$	
	$= 4 \times (9)$	ANS: 9 pupils	
	(4)	· · · · · · · · · · · · · · · · · · ·	Need a home tutor? Visit smiletutør.sg
L	L		

```
Q22) 15 \times 0.20 = 3
        6 apples ---- $3
        1 apple ---- $3 \div 6 = $0.50
        0.50 + 0.20 = $0.70
Q23) Adults : children
                                          men: women
                                            1 : 2
            5 : 2
           15 : 6
                                            5 : 10
        ANS: 5:3
Q24) 90^{\circ} + 64^{\circ} = 154^{\circ}
                                           90^{\circ} - 52^{\circ} = 38^{\circ}
        180^{\circ} - 154^{\circ} = 26^{\circ}
                                             38^{\circ} + 90^{\circ} = 128^{\circ}
                                              180^{\circ} - 128^{\circ} = 52^{\circ}
        26^{\circ} \times 2 = 52^{\circ}
Q25) a)False
        b)False
Q26) a)80l
        b)_{4}^{3} \times 80 = 60 (2.50pm)
Q27) 8 \times 4 = 32
        32 \div 3 = 10\frac{2}{3}
        2 \times 4 = 8
        10^{\frac{2}{3}} - 8 = 2^{\frac{2}{3}}
        2\frac{2}{3}+1=3\frac{2}{3}
Q28) 16 \div 2 = 8cm
        13 \times 8 = 104 \text{ cm}^2
Q29)
        23.3 x 10 = 233
        233 \div 1000 = 0.233
Q30)
        a)week 3
        b)12 +14=26
          26+8=34
           34+17=51
           51+15=66
           66 \div 5 = 13\frac{1}{\pi} = \$13.20
```

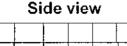
#### PAPER 2

Q1)	$ \begin{array}{c} 1 - \frac{5}{8} = \frac{3}{8} \\ \frac{3}{8} \times 3000 = 1125g \end{array} $	
Q2)	6.35p.m.	
Q3)	11u - 8u = 3u 84 - 57 = 27 3u = 27	
	$1u = 27 \div 3 = 9$	Need a home tutor? Visit smiletutor.sç

	11u = 11 x 9 = 99 red beads
Q4)	0.50 x 2 = 1
<b></b> .,	Cost of 5 pencils\$(5j + 3)
	Cost of 1 pencils
	= (5j + 3)
	5
Q5)	20 x 3 = 60
	12 x 3 = 36 60 + 36 = 96km
Q6)	00 + 30 - 30KIII
(40)	
	а
	107°
į	
Q7)	a)250 + 220 + 300 = \$770
	b)\$300 30000¢
	30000¢÷40¢ = 750 Tarasa pens
Q8)	a) $103 \div 5 = 20 \text{ R}3$
	R3 2
	b)52 $\div$ 5 = 10 R2
	1 + 4 + 2 + 0 + 3 = 10
i	$10 \times 10 = 100$
	100 + 1 + 4 = 105
Q9)	$24 \times 9 = 216$
(43)	30 - 24 = 6
<u> </u>	216 ÷ 6 = 36
040	36 + 4 = 40 days
Q10)	$3 \times 3 = 9$
	4 x 4 = 16
	16 + 9 = 25
	$\frac{1}{2} \times 3 \times (3+4) = 10.5$
	$\frac{1}{2} \times 4 \times 4 = 8$
	<del></del>
	10.5 + 8 = 18.5
	$25 - 18.5 = 6.5 \text{cm}^2$

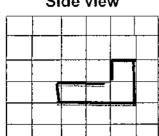
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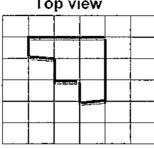




Top view

Front view





·			
	- "-	!	

Number of cupcake Lily has at first ----- 1u+1u+58 Q12) =2u+58

$$(1u+58) \div 2 = \frac{1}{2}u + 29$$

Number of cupcake Tom has at first-----3 $u + \frac{1}{2}u + 29$ 

a)3u + 
$$\frac{1}{2}$$
u + 29 =  $3\frac{1}{2}$ u + 29

$$3\frac{1}{2}u = 264 \times 3\frac{1}{2} = 924$$

b)2u+58+3u+29+
$$\frac{1}{2}u = 1539$$

$$5\frac{1}{2} + 87 = 1539$$

$$5\frac{1}{2}u = 1539 - 87$$

$$1u=1452\div 5\frac{1}{2}$$

= 264 cupcakes

$$80 \times 60 = 4800$$

$$4800 - 1200 = 3600$$

$$100.8 l = 100800$$

$$3600 \times A = 100800$$

$$A = 100800 \div 3600 = 28$$
cm

Q14) a)  $\angle$  DFC = 180° - 60° - 18° = 102°

$$90^{\circ} + 60^{\circ} = 150^{\circ}$$

$$\angle$$
BAC = 30° ÷2 = 15°

b) 
$$\angle$$
 BCF = 60° - 18° = 42°

$$\angle$$
AFC = 180° - 42° = 138°

Q15) a)120.80 - 5.20 = 115.60

$$115.60 \div 2 = 57.80$$

$$57.80 + 5.20 = 63$$

```
63 \div 3 = 21
          21 \times 4 = $84
        b)31.20 - 21 = 10.20
          10.20 + 57.80 = 68
          \frac{10.20}{68} \times 100\% = 15\%
Q16) a) 15 x 2 = 30
           1006 - 30 = 976
            8 x 2 = 16
                               15 \times 3 = 45
           6 pens for $16
           6 books for $45
           45 + 16 = 61
           976 \div 61 = 16
           16 \times 6 = 96 \text{ pens}
        b)96 + 4 = 100
          2 books --- 15
          100 books --- 50 \times 15 = $750
Q17)
       a)2 + 6 + 10 + 6 = 24
          24 \times 4 = 96m
        b) \frac{1}{2} x 3.14 x 8 x 8 = 50.24
             x 3.14 \times 6 \times 6 = 28.26
          50.24 - 28.26 = 21.98
          21.98 \times 4 = 87.92
          24 \times 24 = 576
          576 - 87.92 = 488.08m<sup>2</sup>
```



## SINGAPORE CHINESE GIRLS' SCHOOL

## FIRST SEMESTRAL ASSESSMENT 2019

#### **PRIMARY 6**

## MATHEMATICS PAPER 1

#### **BOOKLET A**

Name : \_\_\_\_\_(

Class: Primary 6 SY / C / G / SE / P

10 May 2019

		Marks attained	Max Mark
Paper 1	Booklet A		20
İ	Booklet B		25
Paper 2			55
Total Marks		•	100

Parent's	Signature

15 Questions 20 Marks

Total Time for Booklets A and B: 1 h

# **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

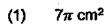
# **Booklet A**

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)

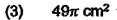
- 1. 300 000 + 20 000 + 40 + 4 = \_\_\_\_\_
  - (1) 302 044
  - (2) 302 404
  - (3) 320 044
  - (4) 320 440
- 2. Kae spent \$1 399 685 on a house. Round off this amount to the nearest thousand dollars.
  - (1) \$1 398 690
  - (2) \$1 399 000
  - (3) \$1 399 700
  - (4) \$1:400 000
- 3. In 6.79, what does the digit 9 stand for?
  - (1) 9 ones
  - (2) 9 tenths
  - (3) 9 hundredths
  - (4) 9 thousandths

- Find the value of  $\frac{3}{4} \div \frac{5}{12}$ 
  - (1)  $\frac{16}{5}$
  - (2)  $\frac{9}{5}$
  - (3)  $\frac{5}{9}$
  - (4)  $\frac{5}{16}$
- 5. There are red, blue and yellow beads. The ratio of the number of red beads to the number of blue beads is 2:1. The ratio of the number of red beads to yellow beads is 3:2. What is the ratio of the number of red beads to the number of blue beads to the number of yellow beads?
  - (1) 6:3:2
  - (2) 6:3:4
  - (3) 2:1:2
  - (4) 2:3:2
- 6. Amy made 7 dumplings every 3 minutes. How many dumplings can she make in an hour?
  - (1) 140
  - (2) 120
  - (3) 70
  - (4) 60

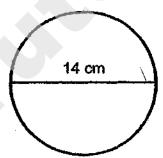
- 7. Jenny had \$50. She bought 4 notebooks and had x left. What was the cost of each notebook? Express the cost of 1 notebook in terms of x.
  - $(1) \qquad \$\left(\frac{50-x}{4}\right)$
  - (2) \$ (50  $\frac{x}{4}$ )
  - (3) \$(50-4x)
  - $(4) \qquad \$\left(\frac{50x}{4}\right)$
- B. The diameter of the circle below (not drawn to scale) is 14 cm. Find the area of the circle. Express your answer in terms of  $\pi$ .



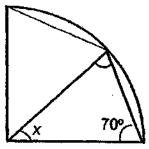




(4)  $196\pi \text{ cm}^2$ 



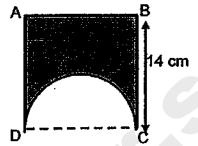
- 9. The figure below is made up of a quadrant and a triangle. Find  $\angle x$ .
  - (1) 40°
  - (2) 45°
  - (3) 70°
  - (4) 140°



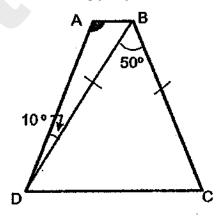
10. ABCD is a square with a semicircle cut from the side CD as shown. Given that BC = 14 cm, find the perimeter of the shaded portion.

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

- (1) 86 cm
- (2) 64 cm
- (3) 53 cm
- (4) 44 cm



- 11. The figure shows a trapezium ABCD and an isosceles triangle BCD. Given that BD = BC, AB // DC and ∠CBD = 50° and ∠ADB = 10°. Find ∠BAD.
  - (1) 65°
  - (2) 75°
  - (3) 105°
  - (4) 115°



- Jeremy has 6 kg of flour. He gave  $\frac{1}{2}$  of it to his friend and used  $\frac{1}{4}$  kg to bake some cookies. How much flour had he left?
  - (1)  $\frac{3}{4}$  kg
  - (2)  $2\frac{3}{4}$  kg
  - (3)  $3\frac{3}{4}$  kg
  - (4)  $5\frac{1}{4}$  kg

- Amanda has forty 20-cent coins and Betty has sixty 50-cent coins.

  Which of the following statement shows the difference between the amount of money Betty and Amanda has?
  - (1)  $(60-40) \times (50-20)$
  - (2)  $(50 \times 60 40 \times 20)$
  - (3)  $(60 \times 40 50 \times 20)$
  - (4)  $(60 + 40) \times (50 20)$
- 14. There were 120 members in Club Aloha last year. This year, there are 300 members. What is the percentage increase from last year?
  - (1) 40%
  - (2) 60%
  - (3) 150%
  - (4) 250%
- 15 A repeat pattern is formed using the numbers 0, 1 and 2 as shown below.

. 0	1	2	1	0	0	1	2	1	0	0	1	2	1
131	2 <sup>nd</sup>	3rd					•			**		_	14 <sup>th</sup>

What is the sum of the first 203 numbers?

- (1) 160
- (2) 161
- (3) 162
- (4) 163

End of Booklet A



# SINGAPORE CHINESE GIRLS' SCHOOL

## **FIRST SEMESTRAL ASSESSMENT 2019**

#### **PRIMARY 6**

## **MATHEMATICS** PAPER 1

#### **BOOKLET B**

Name :( )	
Class: Primary 6 SY / C / G / SE / P	10 May 2019

Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions 25 Marks

Total Time for Booklets A and B: 1 h

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

## **Booklet B**

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this column

16. Use all the numbers below to form the smallest odd number.

5

8

3

2

6

Ans:

17. Express  $\frac{3}{8}$  as a decimal correct to the nearest 2 decimal places.

Ans: \_\_\_\_\_

18. 2 pizzas were shared equally among 5 people. What fraction of a pizza did each person get?

Ans: \_\_\_\_\_

 $\sqrt{_3}$ 

19.	Mei Ling and John has pocket money in the ratio of 2:5 respectively. John
	gave \$9 to Mei Ling and the ratio of the amount of pocket money Mei Ling
	to John became 3: 4. How much money do they have altogether?

Do not write in this column

Ans: \$\_\_\_\_\_

20. The price of a dress without GST is \$50. The GST is 7%, how much will Georgina pay for the dress inclusive of GST?

Ans: \$ \_\_\_\_\_

2

Questions 21 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.

(20 marks)

Do not write

in this

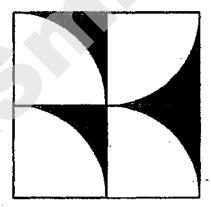
column

21. Helen's score for the first two tests are listed in the table below. How much must Helen score for the 3rd test in order for her to get an average score of 80 marks for all 3 tests?

Test	Marks
1	75
2	70
3	?.

Ans:	-		
------	---	--	--

22. The figure below is made up of 4 identical quadrants with a radius of 10 cm inside a square. What is the area of the shaded figure below? (Take  $\pi$  =3.14)



Ans:			cm
M115.			CHI

/	4	_
		•••

23. Tom bought 2 erasers for x cents each. He also bought an exercise book. He spent \$6 altogether. What is the cost of the exercise book?

Do not write in this column

Ans:		_ cent
31 1 2 4		

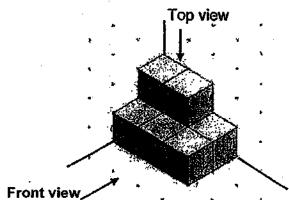
24. A toy wheel of radius 7 cm was rolled along a straight line on a table. What was the distance covered if it made a total of 10 complete revolutions?

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

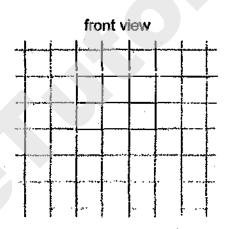


25. In the grid below, draw the top and front view of the solid shown in the grid below.

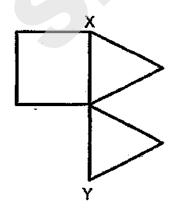
Do not write in this column



Top view



26. John had a 1m long wire. He used some of it to form a square and 2 identical equilateral triangles as shown below. The length of XY is 16 cm, find the length of the remaining unused wire.

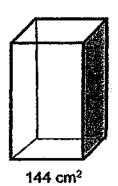


Ans:	 ÇIT

4
4

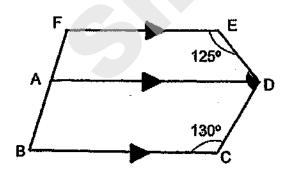
27. Tank A has a square base area of 144 cm<sup>2</sup>. Given that the ratio of the height of the tank to the breadth of the tank is 5:3, what is the capacity of Tank A?

Do not write in this column



Ans: cm<sup>5</sup>

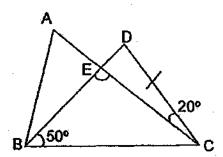
28. The figure below, not drawn to scale, is made up of two trapeziums ABCD and ADEF. Given that FE // AD // BC, find ∠CDE.



Ans: \_\_\_\_\_

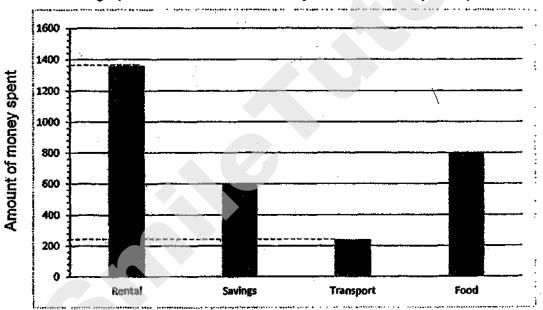
29. The figure below is made up of 2 triangles, ABC and BCD. BCD is an isosceles triangle. Find ∠BEC.

Do not write in this column



Ans: \_\_\_\_\_

30. The bar graph below shows how Ellie spends her monthly salary.



What percentage of the salary did she spend on transport?

Ans:\_\_\_\_\_%

End of Booklet B

## SINGAPORE CHINESE GIRLS' SCHOOL **FIRST SEMESTRAL ASSESSMENT 2019**

#### PRIMARY 6

#### **MATHEMATICS**

#### PAPER 2

Name :	(	
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Class: Primary 6 SY / C / G / SE / P

10 May 2019

	Mark	Max Mark
Paper 2		55

Parent's Signature	

17 Questions 55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

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

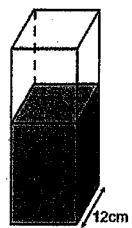
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this column

 At a baking class, 5.04 kg of flour was shared among 8 students. How much flour did each student get? Express your answer in grams

Ans: \_\_\_\_\_\_ g

2. The container below has a square base. It is  $\frac{3}{5}$  - filled. The volume of water in the container is 1296 cm<sup>3</sup>. What is the height of the container?



Ans: \_\_\_\_\_ cm

3.	A shop sells chocolate and vanilla cakes, 40% of the cakes are vanilla cakes.
	She sold 100 chocolate cakes. In the end, 60% of the cakes left are vanilla
	cakes. How many vanilla cakes are there?

Do not write in this column

Ans:	
, n	

- Machine A and Machine B were switched on at the same time for 10 minutes.
   Machine A prints 120 pages per minute.
  - After 10 minutes, Machine A printed 300 more pages than Machine B. What is Machine B's printing rate per minute?

Ans: \_\_\_\_\_

5. A 2-digit number has a remainder of 5 when it is divided by 9. It has a remainder of 2 when it is divided by 11. Find the 2-digit number.

Do not write in this column

Ans:		

For 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. (50 marks)

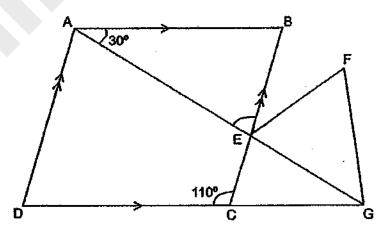
Do not write in this column

- 6. Benjamin has \$8m. He has twice as much money as Cathy. Alice has \$5 more than Cathy.
  - (a) How much money does Alice have? Express your answer in terms of m.
  - (b) Find the total amount of money they have if m = 10.

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

7. In the diagram below, not drawn to scale, ABCD is a parallelogram.

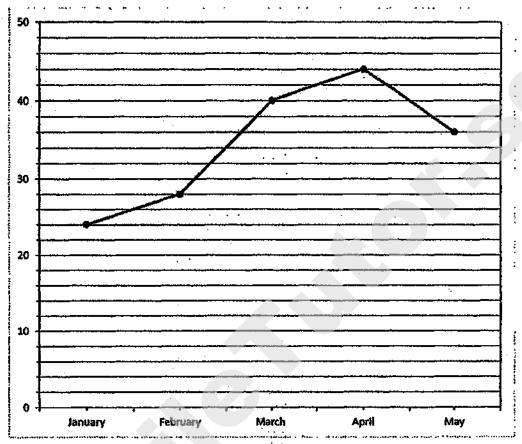
Find ∠ BEG.



Ans : \_\_\_\_\_[3]

8. The graph below shows the number of pens sold at a bookshop at the end of |Do not each month over 5 months last year.

write in this column



- (a) Which 1-month interval has the greatest increase in the number of pens sold?
- (b) Find the ratio of the number of pens sold in January to the total number of pens sold in 5 months. Leave your answer in the simplest form.

Ans: (a) \_\_\_\_\_to\_\_ [2] 9. Brenda and Joe had \$420 altogether. After Brenda spent  $\frac{5}{8}$  of her money and Joe spent  $\frac{1}{4}$  of his money, the amount of money Joe had became thrice as

much as Brenda. How much money did Joe have at first?

Do not write in this column

Ans:\_\_\_\_\_[3]

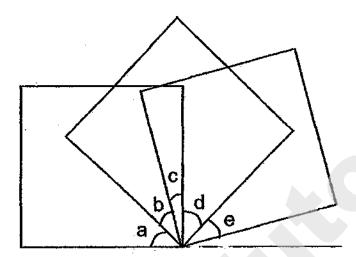
10. Rachel spent \$1200 of her salary on a television set and 60% of the remainder on an oven. She had  $\frac{1}{4}$  of her salary left. How much was her salary?

Ans : \_\_\_\_\_ [3]

11. The figure below, not drawn to scale, consist of 3 identical squares.

Do not write in this column

- (a) Which 2 pairs of angles are equal?
- (b) If  $\angle c = 15^{\circ}$ , find the sum of  $\angle a$ ,  $\angle b$ ,  $\angle c$ ,  $\angle d$  and  $\angle e$ .



Ans : (a) ∠\_\_\_ and ∠\_\_\_[1]

∠ \_\_\_\_ and ∠ \_\_\_\_[1]

(b) \_\_\_\_\_[2]

/<sub>4</sub>\_

12. Shanice needs to score 90 marks for her last Mathematics test in this semester so as to improve on her average score from 75 to 78. How many Mathematics tests were there altogether in a semester?

Do not write in this column

Ans: \_\_\_\_\_[4]

Daniel had some apples and oranges. He threw away  $\frac{1}{5}$  of the apples and bought some oranges to replace the number of apples thrown away. He then gave  $\frac{1}{4}$  of the apples and 25 oranges to his neighbours. In the end, he had 54 apples and 81 oranges left. How many oranges did he have at first?

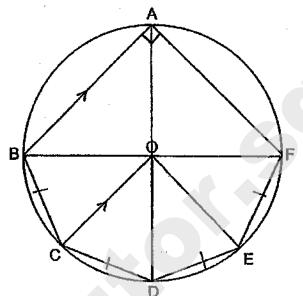
Do not write in this column

[4

14. In the figure below, BF is the diameter of the circle with centre O.

BC = CD = DE = EF.

- (a) Find ∠ FBC
- (b) Find ∠ BFA

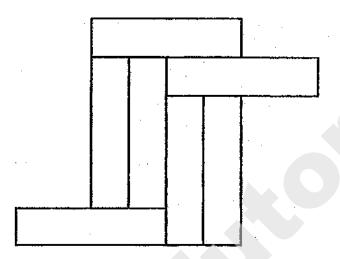


Do not write in this column

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

- 15. The diagram below is made up of 7 identical rectangular blocks.
  The area of 1 block is 64cm².
- Do not write in this column

- (a) What is the length of 1 rectangular block?
- (b) What is the perimeter of the whole figure?



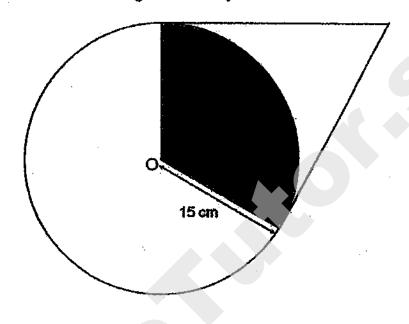
Ans: (a)	[2]
----------	-----

(b)	[2]
· —	 -

16. The figure below is not drawn to scale. It is made up of a circle, with centre O, and a four-sided figure  $\frac{1}{3}$  of the circle and  $\frac{3}{5}$  of the four-sided figure is shaded. Find the area of the whole figure. Leave your answer correct to 2 decimal

places.

Do not write in this column



Ans:\_\_\_\_\_[5]

17. Benedict and Calvin each have some money. If Benedict spends \$36 and Calvin spends \$12 daily, Calvin will have \$260 left after Benedict spends all his money. If Calvin spends \$36 and Benedict spends \$12 daily, Calvin will have \$20 left after Benedict spends all of his money. How much do they have respectively?

Do not write in this column

Ans: Benedict:
----------------

Calvin: \_\_\_\_\_[5]

End of Paper 2

5

SCHOOL: SCGS PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH TERM: 2019 SA1

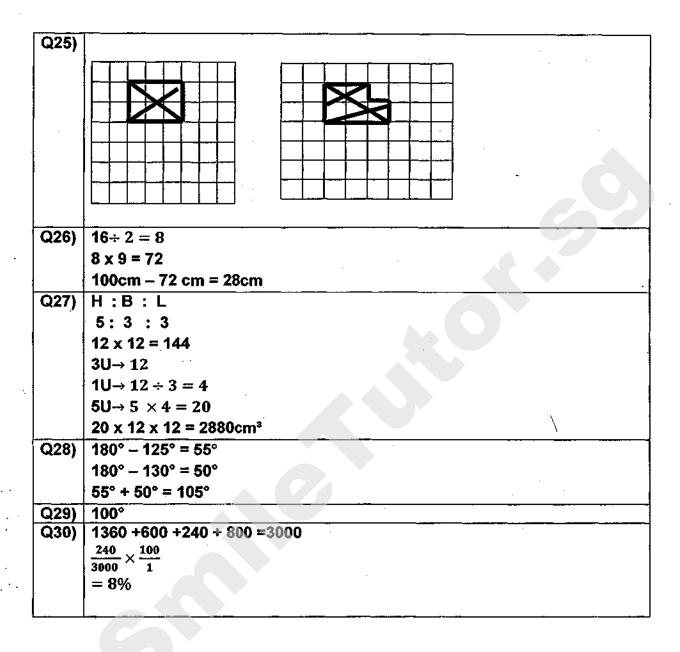
#### **PAPER 1 BOOKLET A**

Q 1	Q2	Q3	, Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	3	2	2	1	1	3	71	2 .

Q 11	Q12	Q13	Q14	Q15
3	2	2	3	4

#### PAPER 1 BOOKLET B

Q16)	23685		
Q17)	$3 \div 8 = 0.375 \approx 0.38$		· · · · · · · · · · · · · · · · · · ·
Q18)	$2 \div 5 = \frac{2}{1} \times \frac{1}{5} = \frac{2}{5}$	>	•
Q19)	M: J :Total	M : J : Total	· · · · · · · · · · · · · · · · · · ·
	2:5:7	3:4:7	•.
	5-4=1		; . ··
	1U→ \$9 × 7 = \$63		•
Q20)	$1\% \rightarrow 50 \div 100 = 0.50$		
	$107\% \rightarrow 0.50 \times 107 = $53$	.50	
Q21)	240 145 =95		
Q22)	10 x 2 = 20		
	20 x 20 = 400 (area of 8)		
	400 – (3.14 X 10 x 10)		
	400 - 314 = 86cm <sup>2</sup>		
Q23)	(600 – 2x)		
Q24)		•	
	$\frac{22}{7} \times \frac{14}{1} = 44$		
	44 x 10 = 440		
	· ·		



#### PAPER 2

Q1)	5.04kg→6040g 5040 ÷ 8 = 630g	· · · · · · · · · · · · · · · · · · ·	
Q2)	12 x 12 = 144 1296 ÷ 144 = 9 9 ÷ 3 = 3 3 x 5 = 15cm	<u></u>	
Q3)	3 x 5 = 15 2 x 5 = 10 15 - 10 = 5		·
	5u→100 1u→100 ÷ 5 = 20 20 x 6 = 120		

0.0	1 A . 4 in 2400
Q4)	A: 1 min->120
1	10min →120 x 10 = 1200 B: 10min→1200 - 300 = 900
	1min →900 ÷ 10 = 90
	Ans: 90
	Alla, 30
Q5)	9:
Ì	9, 18, 27, 36, 45, 54, <u>63,</u> 72, 81, 90
	(14)(23)(32)(41)(50)(59)( <u>68)(77)(86)(95)</u>
	11:
	11, 22, 33, 44, 55, <u>66,</u> 77, 88, 99, 110
	(13)(24)(35)(46)(57)( <u>68)(79)(90)(101)(112)</u>
]	Ans:68
Q6)	a)Ben-→\$8m
	cathy->\$4m
	Alice→\$(4m+5)
	b)(8x10)+(4x10)+(4x10) + 5 = \$165
Q7)	180° – 110° = 70°
,	110° - 30° = 80°
	180° – 70° – 30° = 80°
	180° – 80° = 100°
Q8)	a)February to March
	b)(24+28+40+44+36 = 172)
	24: 172
	6: 43
	0.49
Q9)	4 x 3 = 12
4-7	12 + 8 = 20
	420 ÷ 20 = 21
	21 x 12 = \$252
Q10)	2 x 4 = 8
	8-5=3
	3u→1200
	1u→1200 ÷ 3 = 400
	8u→400 x 8 = \$3200
Q11)	a)< $d$ and <e< td=""></e<>
	< a and $< b$
	b)00° + 00° 45° - 465°
	b)90° + 90° -15° = 165°
	$\cdot$

Q12)	90 – 78 =12	
	12 ÷ 3 = 4	
	4+1=5	
Q13)	81 + 25 = 106	
	54 ÷ 3 = 18	
	106 – 18 = 88	
Q14)	180 ÷ 4 = 45	
	180 45 = 135	
	135 ÷ 2 = 67.5	
	180 - 90 - 45 = 45°	
	a)67.5°	
	b)45°	
Q15)		
	4 x 4 = 16cm	
	b)4+16+4+8+4+8+16+8+16+4+8+16	= 112cm .
Q16)	Area of circle = $\pi r^2$	
	$=\pi (15)^2 = 706.86$ cm	$n^2$
	Area of shaded region = $\frac{1}{3}$ (706.86)	$= 235.62cm^2$
	Area of four-sided figure= 235.62 x	$x\frac{3}{5} = 392.70cm^2$
	Area of whole figure = 706.86 + 392	<del>-</del>
Q17)	B:C	B:C
·	36 X U : 12 X U +260	12 X P : 36 X P + 20
	4011-40	
	36U=12P 12U=4P 3U=1P	
	12U + 260 = 36P + 20	
	12U + 240 = 36P	
	36 - 4 = 32	
	32P → 240	
	$1P \rightarrow 240 \div 32 = 7.5$	
	Benedict $\rightarrow$ 12 x 7.5 = 90 Calvin $\rightarrow$ 36 x 7.5 = 270 + 20 = 290	

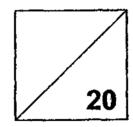


### 2019 PRIMARY 6 SEMESTRAL ASSESSMENT 4

Name:	( ) Date: <u>15 May 2019</u>
Class: Primary 6 ( )	Time: <u>8,00 a.m 9,00 a.m.</u>
Parent's Signature:	/ 100

Paper 1 comprises 2 booklets, A and B.

# MATHEMATICS PAPER 1 (BOOKLET A)

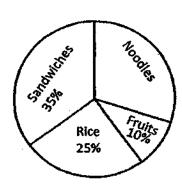


#### **INSTRUCTIONS TO CANDIDATES**

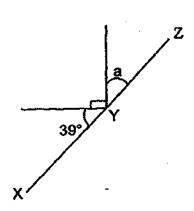
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

(20 marks)

- 1. Round 42 509 to the nearest thousand.
  - (1) 40 000
  - (2) 42 000
  - (3) 42 500
  - (4) 43 000
- 2. What does the digit 8 in 6.583 stand for?
  - (1) 8 ones
  - (2) 8 tenths
  - (3) 8 hundredths
  - (4) 8 thousandths
- 3. The pie chart shows the different types of food a group of workers bought for their lunch. What is the ratio of the number of workers who bought noodles to the number who bought sandwiches?
  - (1) 6:7
  - (2) 7:6
  - (3) 3:10
  - (4) 7:20

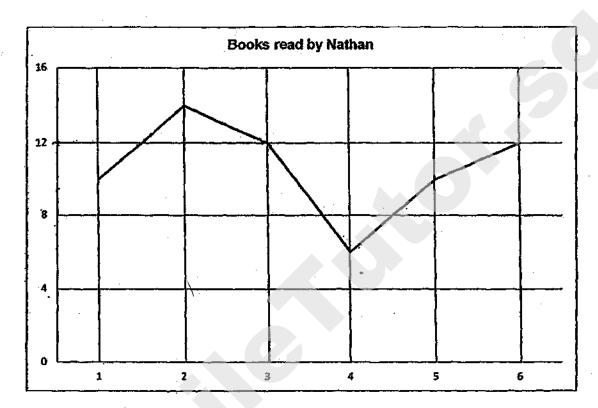


- 4. Which one of the following is the most common length of an adult's bed?
  - (1) 2 m
  - (2) 2 cm
  - (3) 20 m
  - (4) 20 cm
- 5. A rectangular plank has a perimeter of 150 cm. Its breadth is 30 cm. Find its area.
  - (1) 5 cm<sup>2</sup>
  - (2) 1350 cm<sup>2</sup>
  - (3) 2940 cm<sup>2</sup>
  - (4) 3600 cm<sup>2</sup>
- 6. XYZ is a straight line. Find ∠a.
  - (1) 39°
  - (2) 41°
  - (3) 51°
  - (4) 102°



- 7. Jamie paid \$10 for a box of 50 erasers. How much did each eraser cost?
  - (1) 5¢
  - (2) 2¢
  - (3) 20¢
  - (4) 50 ¢
- 8. What is the value of  $20 6 + 2 \times (2 + 3)$ ?
  - (1) 5
  - (2) 15
  - (3) 35
  - (4) 85
- 9. Kelly is facing the north-east direction. How should she turn so that she faces west?
  - (1) 45° clockwise
  - (2) 135° clockwise
  - (3) 135° anti- clockwise
  - (4) 225° anti- cłockwise

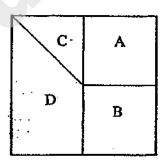
10. The graph below shows the number of books read by Nathan in 6 weeks. His target is to read a minimum of 12 books in a week. How many weeks did Nathan achieve this target?



Week

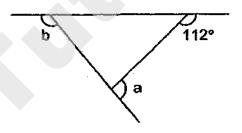
- (1) 1
- (2) 2
- (3) 3
- (4) 4

- 11. Mrs Chew paid \$46 for an electric iron after a discount of 60%. What was the price of the electric iron before discount?
  - (1) \$18.40
  - (2) \$27.60
  - (3) \$73.60
  - (4) \$115
- 12. The figure shown is a square made up of four parts, A, B, C and D. A and B are squares that form 50% of the figure. Which of the following two parts will add up to form  $\frac{s}{s}$  of the figure?
  - (1) A and C
  - (2) B and C
  - (3) C and D
  - (4) A and D



- 13. Sam is e years old now. In 10 years' time, his mother will be thrice as old as he. How old is Sam's mother now?
  - (1) (3e 10) years
  - (2) (3e 20) years
  - (3) (3e + 10) years
  - (4) (3e + 20) years

- 14. Melvin does his morning exercise by climbing up and down the stairs in his block. He always starts at the floor where his flat is. He goes up 4 floors, down 6 floors and then up 5 floors, to finish on the 8th floor. At what floor is Melvin's flat?
  - (1) 5<sup>th</sup>
  - (2) 11<sup>th</sup>
  - (3) 3<sup>rd</sup>
  - (4) 4<sup>th</sup>
- 15. In the figure, ∠a + ∠b = \_\_\_\_



- (1) 68°
- (2) 112°
- (3) 136°
- (4) 248°

End of Booklet A

Go on to Booklet B

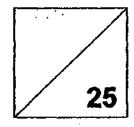


#### 2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1

Name :	· ·	(	) Date: <u>15 May 2019</u>
Class : Primary 6 (	)		Time: <u>8.00 a.m 9.00 a.m.</u>
Parent's Signature :	<del></del>		

Paper 1 comprises 2 booklets, A and B.

## 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 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16.	Round the	product of	5.786 and	100 to the	nearest whole	number.
-----	-----------	------------	-----------	------------	---------------	---------

Ans:\_\_\_\_\_

17. The perimeter of a square is 1 m. Find its area.

Ans: \_ \_\_\_\_ m²

18. In the table below, Ms Tan recorded the number of books her students read in a week.

No. of books read	0	1	2	3	4
No. of students	3	16	10	18	3

How many students read at least 2 books?

Ans: \_\_\_\_\_

19. Simplify 8m - 3 - m + 8.

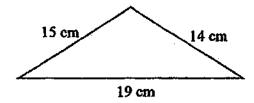
Ans:\_\_\_\_\_

20. Express 0.5% as a fraction. Express your answer in the simplest form.

Ans:

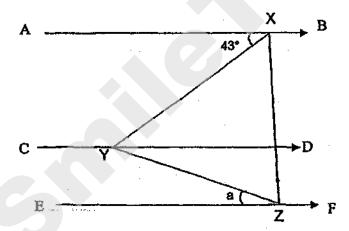
21.	Write down all the common factors of 12 and 42.	
	Ans:	
	on a dress, Joanne has \$80 left. How much money did Joanne have at	··· •
	Ans: \$	
23.		
23.	Ans: \$  Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs.	
23.	Ans: \$  Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs.	
23.	Ans: \$  Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs.	
23.	Ans: \$  Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs.	
3.	Ans: \$  Jennifer baked 120 tarts. For every 15 tarts, Jennifer used 3 eggs.	

24. The perimeter of the triangle shown below is 2 times that of a rectangle. The length of the rectangle is 8 cm. Find its breadth.



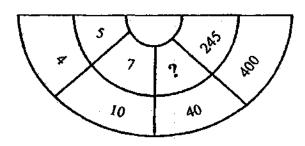
Ans: \_\_\_\_\_ cm

25. In the figure below, AB // CD // EF. XYZ is an equilateral triangle. Find ∠a



Ans: \_\_\_\_

26. What is the missing number?



Ans:

27. A 8 m piece of string is cut into shorter pieces. Each piece measures  $\frac{3}{4}$  m, except for the last piece. What is the length of the last piece?

Ans:\_\_\_\_\_m

28. At a cafe, Ken paid \$8.20 for a curry puff and 4 almond muffins. Mariam paid \$17.20 for a curry puff and 10 almond muffins. Sheila bought a curry puff. How much did she pay?

Ans: \_\_\_\_\_

29. A rectangular tank was half-filled with water. Jeremy realized that he needed another 332 cm<sup>3</sup> of water to make it  $\frac{3}{5}$  full. How many litres of water would there be in the tank when it was completely full?

Ans: \_\_\_\_\_

30. Raymond always saved 45% of his salary. When his salary decreased by 20% in April, his savings decreased by \$180. How much was Raymond's salary before the decrease?

Ans: \$\_\_\_\_\_

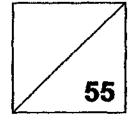
End of Booklet B End of Paper 1



# **2019 PRIMARY 6 SEMESTRAL ASSESSMENT 1**

Name :		(	,	Date: 15 May 2019
Class : Primary 6 (	; )			Time: 10.30 a,m - 12.00 noon
Parent's Signature : _	į.			

# 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)

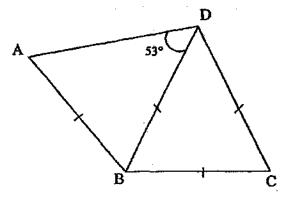
1. A marking is drawn every  $\frac{1}{10}$  km in a straight foot path that measures  $\frac{4}{5}$  km long. How many markings are there on the foot path, including the one at the start?

Ans: \_\_\_\_\_\_

2. The ratio of Karl's age to Tim's age is 2:3. Karl is 14 years old now. How old was Tim 1 year ago?

Ans: \_ \_\_\_\_\_ years old

3. The figure below is not drawn to scale. ABCD is a four- sided figure. BCD is an equilateral triangle. Find ∠ABC,



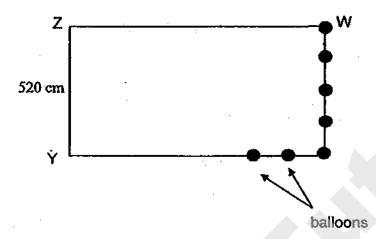
Ans: \_\_\_\_\_

4. Lay Kim sold (m + 6) tickets on Saturday. She sold m more tickets on Sunday than on Saturday. Altogether, she sold 48 tickets on the two days. Find the value of m.

2

Ans: \_\_\_\_\_\_\_

5. A total of 18 balloons are hung at an equal distance apart along three sides WX, XY and YZ of a rectangular stage. The figure shows part of the set-up. The breadth of the stage is 520 cm. What is the length of the stage?

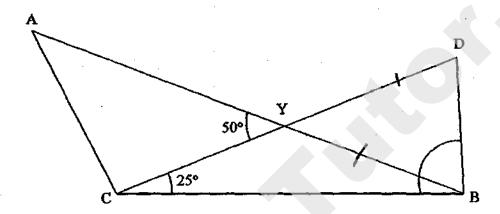


Ans : \_\_\_\_cm

For questions 6 to 17, 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.

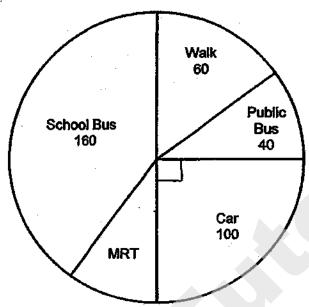
(45 marks)

6. In the figure below, not drawn to scale, AB and CD are straight lines that intersect at Y such that CY = YD. Find ∠CBD.



Ans:\_\_\_\_\_[3]

7. The pie chart below shows the number of students travelling to school by different ways. What percentage of the students travel to school by MRT?



Ans:\_\_\_\_[3]

8.	The price of one notebook is \$3.80. When a customer buys 3 such notebooks, he can buy one more notebook at half the price. What is the greatest number of notebooks that a customer can buy with \$80?

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

- 9. In January, the ratio of the number of butterflies to the number of bees in a garden was 7:3. In February, the butterfly population decreased by 20% while the bee population increased by 30%.
  - a) What was the percentage change in the combined butterfly and bee population?
  - b) If there were 168 butterflies left in February, what was the butterfly population in January?

Ans: (a)\_\_\_\_\_[2]

(b)\_\_\_\_\_[1]

10. Madam Lydia bought some white noodles and some yellow noodles. She cooked an equal amount of white and yellow noodles. She had  $\frac{3}{8}$  of the white noodles and  $\frac{3}{4}$  of the yellow noodles left. What fraction of the noodles which Madam Lydia bought was cooked? (Leave your answer in the simplest form.)

Ans:_	 [3]

- 11. Mrs Munah used  $\frac{7}{10}$  of a packet of flour to bake some cookies. She then had  $\frac{2}{5}$  kg of flour left.
  - a) What was the mass of flour in the packet at first? Leave your answer in kg.
  - b) Given that Mrs Munah used  $\frac{1}{15}$  kg of flour for each cookie, how many cookies did she bake?

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

- 12. Jessica bought a dress and a handbag at a discount. She spent a total of \$330 on these two items. She spent \$30 more on the handbag than on the dress.
  - a) How much did she spend on the handbag?
  - b) The total discount given for the two items was \$95. She was given a 20% discount for the handbag. What was the percentage discount given for the dress?

Ans: (a)	·	[1	]
----------	---	----	---

13. At a pharmacy, a \$2 voucher was given for every \$15 spent. Mary bought 3 bottles of shampoo and 2 bars of soap. Each bar of soap costs  $\frac{2}{3}$  as much as 2 bottles of shampoo. Mary realised that she had to spend another \$6.45 to get exactly \$8 worth of vouchers. What was the cost of 1 bar of soap?

- 14. Thomas had a carton of milk. He drank the same amount of milk everyday. At the end of the  $12^{th}$  day, he was left with  $\frac{2}{5}$  of the milk. At the end of the  $15^{th}$  day, which was a Tuesday, he was left with 1200ml of milk.
  - a) What fraction of the milk did he drink each day?
  - b) From the 16th day, he decided to drink twice the amount of milk which he used to drink daily. On which day would he finish the remaining milk?

- 15. Amanda, Bob and Caren went to a bakery to buy a birthday cake for their mother. They shared the cost of the cake equally. However, Amanda did not bring any money. Bob and Caren paid for the cake first.

  The ratio of the amount Bob paid to the amount Caren paid was 5 : 3. When they reached home, Amanda returned her share of the bill to Bob and Caren. She paid Bob \$5.60.
  - a) How much did Amanda pay Caren?
  - b) How much did the birthday cake cost?

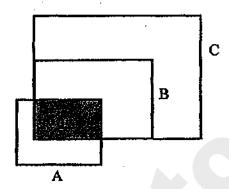
Ans: (a)	[2]
(p)_	[2]

- 16. Isabellia saved 2 coins in her new piggy bank each day. Each coin was either a 20¢ or a 50¢ coin. Her father also helped by putting in a \$1 coin in her piggy bank every 7 days. The total amount of money in the piggy bank after 196 days was \$137.90.
  - a) How many coins were there in the piggy bank altogether?
  - b) How many of the coins were 20¢ coins?

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

17. The figure below is made up of overlapping rectangles, A, B and C. The area of B is twice the area of A and  $\frac{4}{7}$  the area of C.  $\frac{3}{8}$  of B is shaded. The area of A is 144 cm<sup>2</sup>.

Find the unshaded area of the figure.



Ans:\_\_\_\_\_[5]

End of Paper 2

SCHOOL: TAO NAN PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT : MATH

TERM : 201 9 SA1

## PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	1	1	2	3	3	1	3	3 .

Q 11	Q12	Q13	Q14	Q15
4	4	4	1	4

## PAPER 1 BOOKLET B

Q16)	5.786 x 100 = 578.6 ≈ 579	
Q17)	$1m \div 4 = \frac{1}{4}$	
	$\frac{1}{4}m \times \frac{1}{4}m = \frac{1}{16}m^2$	· •: •
Q18)	10 + 18 + 3 = 31	
Q19)	8m - 3 - m + 8 = 8m - m + 8 - 3	:
	7m + 8 – 3	
i	7m + 5	
Q20)	$0.5\% = \frac{5}{1000} = \frac{1}{200}$	
Q21)	1, 2 ,3 ,6	
Q22)	5 5	-
i	$\left \frac{80}{2}\times 5 = \$200\right $	
•	$\frac{\$200}{4} \times 5 = \$250$	
Q23)	120 ÷ 5 = 8	
	8 x 3 = 24	
Q24)		
	48cm ÷ 2 = 24cm	
	8cm X 2 = 16cm	

	24cm - 16cm = 8cm
1	8cm ÷ 2 = 4cm
Q25)	180° – 77° = 103°
	103° + 60° = 163°
	180° – 163° = 17°
Q26)	7 x 5 = 35
Q27)	$\frac{8}{1} \div \frac{3}{4} = \frac{8}{1} \times \frac{4}{3} = \frac{32}{3}$
1	$=10\frac{2}{3}$
	$\frac{3}{4} \times \frac{10}{1} = \frac{15}{2} = 7\frac{1}{2}$ Ans : $\frac{1}{2}$
Q28)	\$17.20 - \$8.20 = \$9
	10 – 4 = 6
	\$9 ÷ 6 = \$1.50
:	$$1.50 \times 4 = $6$
	\$8.20 - \$6 = \$2.20
000	3 6
Q29)	$\frac{3}{5} = \frac{6}{10}$
	$1 \div 2 = \frac{5}{10}$
	$332 \text{cm}^3 = 1 \text{ unit}$
	10 units = $3320 \text{cm}^3$
	3320cm³ = 3.32l
Q30)	$\frac{45}{100} \times 80\% = 36\%$
	45% - 36% = 9%
	9% of salary = \$180
	100% of salary = $\frac{$180}{9} \times 100$
1	= \$2000

# PAPER 2

Q1)	$\frac{4}{5} \div \frac{1}{10} = 8$	,
	8 + 1 = 9	-
Q2)	14 years = 2 units 3 units = 21 years 21 – 1 = 20 years old	

		·
Q3)	$180^{\circ} \div 3 = 60^{\circ}$	
	53° x 2 = 106°	
	$\angle ADB = 180^{\circ} - 106^{\circ} = 74^{\circ}$	
	∠ABC = 74° + 60° = 134°	
	200 1 6 1 00 1 6	
Q4)	2m + 6 + m + 6 = 3m + 12 = 48	
	3m = 36	
	m = 12	
]	, · · ·	
Q5)	5-1=4	
	520 ÷ 4 = 130	
	9 x 130cm = 1170 cm	
Q6)	50° x 2 = 100°	
٠, ١	$\angle y = \frac{360^{\circ} - 100^{\circ}}{100^{\circ}} = 130^{\circ}$	
	2	
		· ·
	$\angle ABC = 180^{\circ} - 130^{\circ} - 25^{\circ} = 25^{\circ}$	
	$\angle ABD = 180^{\circ} - 50^{\circ} = 65$	•
	2	
	65° + 25° = 90°	
	33 123 134	
Q7)	400 - 160 - 60 - 40 - 100 = 40	· · ·
	40 _ 1	
	400 10	
	= 10%	
		· · · · · · · · · · · · · · · · · · ·
Q8)	$$3.80 \div 2 = $1.90$	
	\$3.80 x 3 = \$11.40	
	\$11.40 + \$1.90 = \$13.30	•
	\$80 ÷ \$13.30 ≈ 6	
	\$13.30 x 6 = \$79.80	
i	6 x 4 = 24	
Q9)	a)130% of 3 units = 3.9 units	
	5.6 units + 3.9 units = 9.5 units	
	$\frac{9.5}{10} = 95\%$	
	100% - 95% = 5%	
:	10070 - 0070 - 070	
	168 400 - 040	
	$b)\frac{168}{80} \times 100 = 210$	·
		·
Q10)	20 units + 8 units = 28 units	

	$ \begin{array}{c} 10 \\ 28 \end{array} = \frac{5}{14} $	]
Q11)	7 3	-
Q(1)	a)1 - $\frac{7}{10} = \frac{3}{10}$	
	$\frac{3}{10}$ of a packet = $\frac{2}{5}$ kg	
	$\frac{1}{10}$ of a packet $-\frac{1}{5}$ kg	
	1 of a packet = $1\frac{1}{3}$ kg	
	3	1
	1 . 2 . 14	
	b) $1\frac{1}{3}$ kg $-\frac{2}{5}$ kg $=\frac{14}{15}$ kg	l
	$\frac{14}{15}$ kg ÷ $\frac{1}{15}$ kg = 14	
	15 15 15	
Q12)	a)\$330 - \$30 = \$300	ļ
WIZ)	$$300 \div 2 = $150$	
	\$150 + \$30 = \$180	
	, 4100 · 400 = 4100	
	\$180	
	$b)\frac{$180}{80} \times 100 = $225$	
	\$225 - \$180 = \$45	
	\$95 - \$45 = \$50	
	\$150 + \$50 = \$200	'
	$\frac{50}{200} = \frac{1}{4} = 25\%$	
	200 4	
Q13)	3 ÷ 2 = 1.5	1
٦.٠,	$2 \times 2 = 4$	
	4+3+1.5=8.5	
	$$15 \times 4 = $60$	
	8.5 units + \$6.45 = \$60	
	8.5 units = \$53.55	
	17 parts = \$53.55	
	1 part = \$3.15	
	2 units = 4 parts	
	\$3.15 x 4 = \$12.60	
Q14)	$a)\frac{1}{20}$	
	b)Friday	
	vji iway	
Q15)	a)24 units ÷ 3 = 8 units	1
٠.٠/	15 units – 8 units = 7 units	
:	1 unit = \$5.60 ± 7 = \$0.80	Horo
	Need a home tutor? Visit smiletu	łlOľ.S

	b)24 units = \$0.80 x 24 = \$1920
Q16)	a)196 ÷ 7 = 28
	28 x \$1 = \$28
	\$137.90 <b>-</b> \$28 <b>=</b> \$109.90
	196 x 2 = 392
	392 + 28 = 420
	b)Assume all are 50¢ coins = 392 x \$0.50 = \$196
	Diff in sum = \$196 - \$109.90 = \$86.10
	Diff in amount = \$0.50 - \$0.20 = \$0.30
	\$86.10 ÷ \$0.30 = 287
Q17)	14 units – 3 units = 11 units
	11 units + 1 unit = 12 units
•	36 x 12 = 432 cm <sup>2</sup>

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



# COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

#### **MATHEMATICS**

### PAPER 1 Booklet A

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. Shade your answers in the Optical Answer Sheet (OAS) provided.

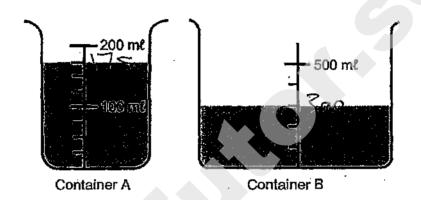
5. The use of calculators is NOT allowed.

This question paper consists of 10 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) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

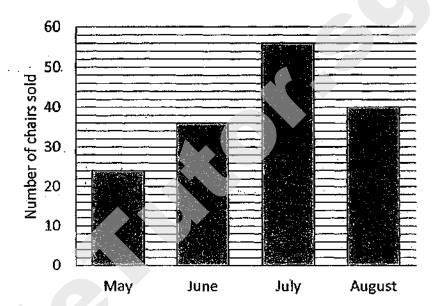
- Express 3080 cm in m.
  - 3.08 m
  - 3.80 m
  - 30.08 m
  - 4) 30.80 m
- Round 123.456 to the nearest hundredth.
  - 1) 120.00
  - 2) 123.50
  - 3) 123,45
  - 4) 123,46

3. Two containers with some water are shown below.
How much more water is there in Container B than in Container A?



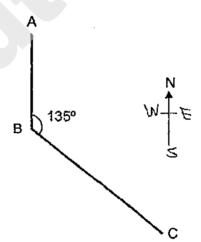
- 1) 125 ml
- 2) 175 ml
- 3) 300 ml
- 4) 475 mg
- 4. Which of the following is the same as 7040 cm<sup>3</sup>?
  - 1) 78 4 m8
  - 2) 78 40 ml
  - 3) 70ℓ 4 mℓ
  - 4) 708 40 ml

5. The graph shows the number of chairs sold by a shop from May to August. In which two months were a total of 76 chairs sold?



- 1) May and June
- 2) May and July
- 3) June and August
- 4) July and August
- 6. Which of the following fractions is closest to 4?
  - 1)  $3\frac{1}{2}$
  - 2)  $3\frac{1}{6}$
  - 3)  $4\frac{1}{4}$
  - 4)  $4\frac{1}{5}$

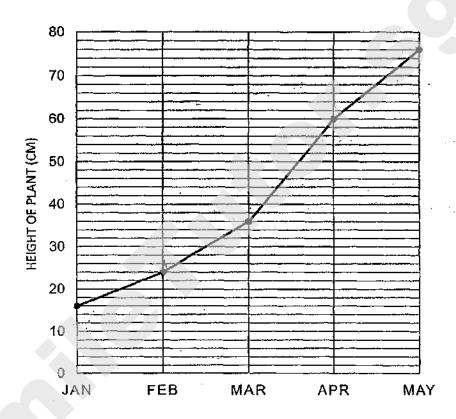
- 7. How many whole numbers from 29 to 62 are divisible by 5?
  - 1) 6
  - 2) 7
  - 3) 12
  - 4) 18
- 8. In the diagram, A, B, and C are three points on the ground. Point A is north of Point B and ∠ABC is 135°. In what direction is Point C from Point B?
  - 1) North-East
  - 2) North-West
  - 3) South-East
  - 4) South-West



9. Which of the letters below has parallel lines and no perpendicular lines?

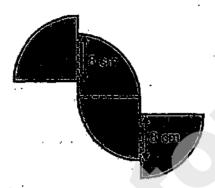


10. The graph shows the height of a plant from Jan to May.
In which of the following periods did the plant grow by 24 cm?



- 1) Jan to Feb
- 2) Feb to Mar
- 3) Mar to Apr
- 4) Apr to May

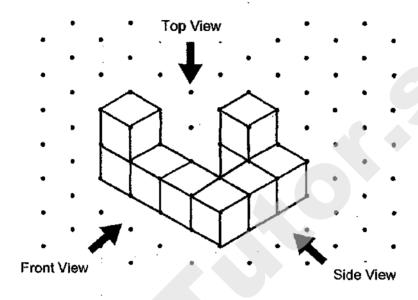
11. The figure is made up of four quarter circles of radius 10 cm. Find the perimeter of the figure. (Take  $\pi = 3.14$ )



- 1) 90.8 cm
- 2) 82.8 cm
- 3) 71.4 cm
- 4) 59.4 cm
- 12. Ben, Charlotte and Danny have some marbles. The ratio of the number of marbles Ben has to the number of marbles Charlotte has is 2:7. The total number of marbles Ben and Charlotte have is three times as many as the number of marbles Danny has. Ben and Danny have 300 marbles. How many marbles does Charlotte have?
  - 1) 120
  - 2) 180
  - 3) 420
  - 4) 720

- 13. Mrs Tan had 9 kg of flour. She used  $\frac{1}{3}$  of it to bake a cake. After that, she used  $\frac{1}{2}$  kg of the flour to bake some cookies. How much flour had she left?
  - 1)  $1\frac{1}{2}$  kg
  - 2)  $4\frac{1}{6}$  kg
  - 3)  $5\frac{1}{2}$  kg
  - 4)  $8\frac{1}{6}$  kg

14. 9 cubes are stacked to form the solid below.

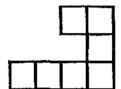


Which of the following is the top view of the solid?

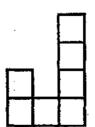
1)



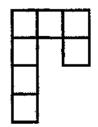
2)



3)



4)



15.

PARKING FEES	
For first hour	\$2.20
Every subsequent $\frac{1}{2}$ hour or part thereof	\$0.80

Miss Ranjit parked her car from 9.00 a.m. to 2.15 p.m. How much did she pay for her parking?

- 1) \$6.20
- 2) \$6.40
- 3) \$8.80
- 4) \$9.40

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



# COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

#### **MATHEMATICS**

## PAPER 1 Booklet B

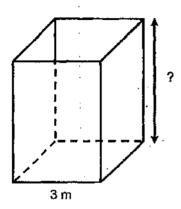
Friday	23 August 2019	1h
<ol> <li>Follow all instru</li> <li>Answer all ques</li> </ol>	r this page until you are told to do so.	
	ulators is <u>NOT</u> allowed.	
Name :	( )	
Class : 6.( )		

This question paper consists of 10 printed pages. (Inclusive of cover page)

			(5 marks)
6.	Ashley watched a movie th	at lasted for 149 minutes.	The movie started at
	11.05 a.m. At what time di		
		40	
-			
		Answer:	p.m
7.	_ 3	_	
	Evarage — ac a decimal	Cive vour answer correct:	to 2 decimal places
7.	Express 11 as a decimal.	Give your answer correct	to 2 decimal places.
7.	Express 11 as a decimal.	Give your answer correct	to 2 decimal places.
	Express 1 as a decimal.	Give your answer correct	to 2 decimal places.
,.	Express 1 as a decimal.	Give your answer correct	to 2 decimal places.
,.	Express 1 as a decimal.	Give your answer correct	to 2 decimal places.
	Express 1 as a decimal.	Give your answer correct	to 2 decimal places.
·	Express 1 as a decimal.		to 2 decimal places.

18. The figure shows a cuboid with a square base of side 3 m.

The volume of the cuboid is 54 m³. Find the height of the cuboid.



Answer: \_\_\_\_\_ m

19. Find the value of 2-0.008.

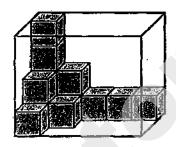
Answer:

Combined ACS Prelim 2019

3

Sub-Total:

20. The figure shows a rectangular glass box filled with some unit cubes. How many more cubes are needed to fill the box completely?



Answer:

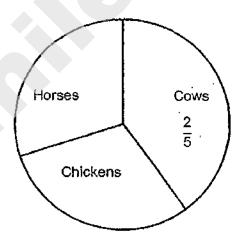
ขารพย			king clearly and write your require units, give your (20 marks)
21.	The square below is ma each rectangle is 40 cm.	•	angles. The perimeter of square?
	: :	Г	
			· · · · · · · · · · · · · · · · · · ·
		Answer:	cm²
2.			ncils as Laura. They each they now have altogether
	i i		
	•		
		Answ	er:
	•		
	•		
:omb	pined ACS Prelim 2019	5	Sub-Total :

23.	The average of a 1-digt number, a 2-digit number and a 3-digit number is
	368. What is the smallest possible 1-digit number?

Answer:			
MISWELL			

24. The pie chart represents the number of each type of animals in a farm. There is an equal number of horses and chickens.

There are 15 horses and  $\frac{2}{5}$  of the animals are cows. How many cows are there?



Answer:	

25.	Peter had 80 stickers. He used $\frac{1}{4}$ of his stickers and gave 30% of the
	remaining stickers to Elijah. How many stickers had Peter left?
	Answer:
26.	Daniel paid \$4800 for a laptop and 5 cameras. A laptop cost 3 times as much as a camera. How much did the laptop cost?
	Thus, as a search and mast and topop soot.
	:
	Answer: \$

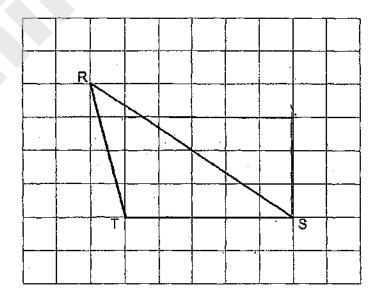
Combined ACS Prelim 2019

Sub-Total:

Susan has  $\frac{7}{11}$  as many candies as Mary. After Susan gave 52 candies to Mary, both of them had the same number of candies. How many candies did Susan have at first?

Answer:

28. A triangle RST is drawn on the square grid below. Draw and label a rectangle STUV on the square grid such that the area of triangle RST is  $\frac{2}{3}$  the area of rectangle STUV.

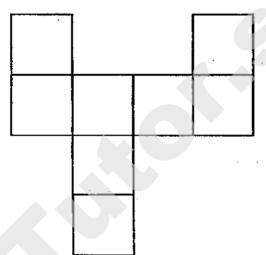


Combined ACS Prelim 2019

8

Sub-Total :

29. The figure below is an incorrect net of a cube. Put two crosses (X) on the two square faces which are incorrect.

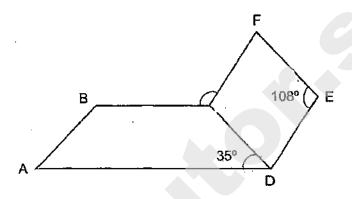


Combined ACS Prelim 2019

1

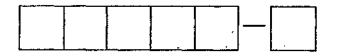
Sub-Total :

30. In the figure below, CDEF is a rhombus with ∠DEF = 108°. ABCD is a trapezium with CD parallel to EF and ∠ADC = 35°. Find ∠BCF.



Answer: \_\_\_\_\_\_

End of Paper 1



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



### COMBINED PRELIMINARY EXAMINATION (2019) PRIMARY 6

#### **MATHEMATICS**

#### PAPER 2

Friday

23 August 2019

1 h 30 min

Booklet / Possible

#### INSTRUCTIONS TO PUPILS

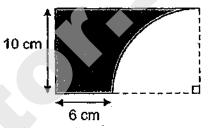
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Show all your workings as marks are awarded for correct working.
- 5. Write your answers in this booklet.
- 6. The use of an approved calculator is expected, where appropriate.

	Paper	Marks	Obtained
Name : ( )	Booklet A	20	
Class : 6.( )	Booklet B	25	
	Paper 2	55	
Parent's Signature:	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)

1. John cut out a quarter circle with a radius of 10 cm from a piece of rectangular paper as shown below. What is the perimeter of the shaded part? (Take  $\pi = 3.14$ )



Answer:		cm

2. The table shows the number of pupils with the following scores.

Score	11	12	13	14	15
Number of pupils	3	1	0	2	4

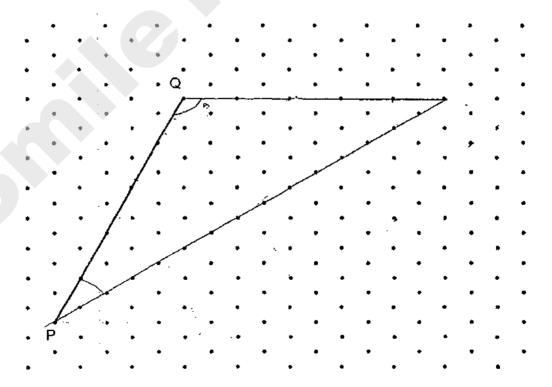
What was the average score of all the pupils?

Answer:	

3. Mrs Lim bought some beads for Jessica and Karen. For every 8 beads Jessica took, Karen took 5. In the end, Jessica had 216 more beads than Karen. How many beads did Mrs Lim buy?

Answer:

4. In the grid below, draw and label an isosceles triangle PQR in which PQ = QR and ∠PQR is 120°. The line PQ is drawn for you.



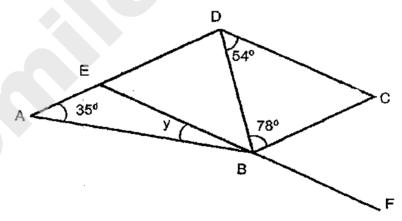
5. At a carnival, 80% of the muffins were sold at full price and the remaining 60 muffins were sold at half price. The total amount of money collected from the sale of muffins was \$864. What was the full price of a muffin?

For questions 6 to 17, show your working clearly and write your answers in the in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

6. Amy had \$24.80 more than Beatty at first. After Beatty gave \$14.20 to Amy, Amy had 3 times as much money as Beatty in the end. How much did Beatty have at first?

Answer: \_\_\_\_\_[3]

7. In the figure, AED and EBF are straight lines and BCDE is a parallelogram. Find ∠y.

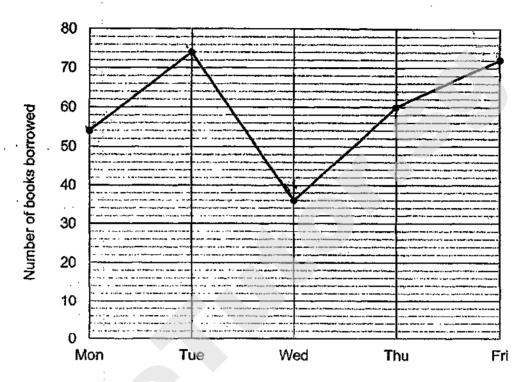


Answer: \_\_\_\_\_[3]

- 8. A shirt cost'\$8n. A tie cost half as much as the shirt.
  - a) Mr Tan bought 6 identical ties and 1 shirt. How much money did he spend in terms of n?
  - b) Mr Tan spent \$256 on 6 identical ties and 1 shirt. Find the value of n.

Answer:	(a)	·	_[2]

 The line graph shows the number of books borrowed from a library from Monday to Friday.



- (a) In which 1-day period was there the biggest change in the number of books borrowed?
- (b) Which were the two days when the ratio of the number of books borrowed were 3:4?

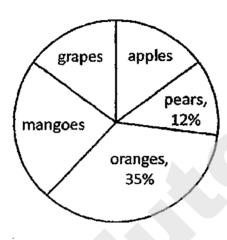
Answer: (a)\_\_\_\_\_\_to\_\_\_[1]

(b)\_\_\_\_\_ and \_\_\_\_ [2]

10. Eddie and his sister walked from home to school. His sister started walking at 8.00 am at an average speed of 50 m/min. Eddie started walking at 8.05 am at a speed of 60 m/min. Eddie caught up with his sister at mid-point between the school and his home. Find the distance between Eddie's home and the school.

Answer: \_\_\_\_\_ [3]

11. The pie chart shows the different types of fruits in a shop.There was an equal number of grapes and apples.There were 16 more mangoes than grapes.There were 200 fruits altogether.



- (a) What was the total number of mangoes, grapes and apples?
- (b) How many apples were there?

Answer:	(a)		[2]	
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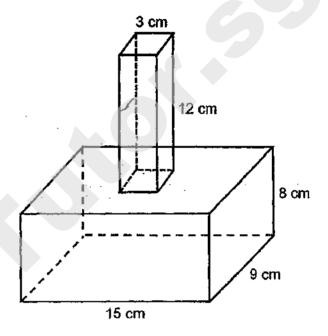
- 12. The ratio of the number of boys to the number of girls in Group A was 4:1. The ratio of the number of boys to the number of girls in Group B was 2:3. There were twice as many children in Group A as in Group B.
  - (a) What was the ratio of the number of boys in Group A to the number of boys in Group B?
  - (b) 10 boys and 10 girls left in Group B. The ratio of the number of boys in Group B to the number of girls in Group B became 1 : 2. How many children were there in Group A?

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

13. The figure shows an empty flower vase of height 20 cm. It is made from two containers. The top container is in the form of a cuboid which has a square base of 3 cm and a height 12 cm. The bottom container is in the form of a cuboid, measuring 15 cm by 9 cm by 8 cm.

 $1\frac{1}{8}$ ? of water is poured into the empty vase.

Find the height of the water level from the base of the vase.



Answer:				[4	1
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	 	 	ι.	4

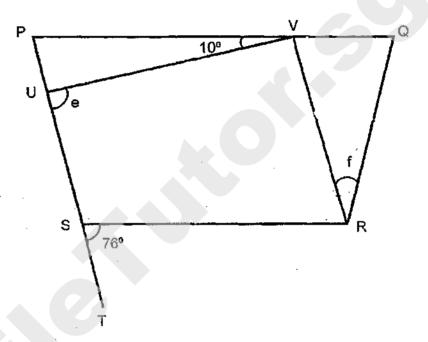
14. Joyce had some money. She bought a dress, a shirt and a watch. She spent  $\frac{1}{5}$  of her money on the shirt. The shirt cost \$24 less than the dress. The watch cost \$102. She was left with  $\frac{1}{4}$  of the amount of money she had at first. How much money did Joyce have at first?

Answer: \_\_\_\_\_[4]

15. Box A contained only 50-cent coins while Box B contained only 20-cents coins. Box B has 60 more coins than Box A but the value of all the coins in Box A is \$4.50 more than the value of all the coins in Box B. Find the amount of money in Box A.

Answer: \_\_\_\_\_[4]

- 16. In the figure shown below, PQRS is a trapezium. PS // VR and VR = QR. PST is a straight line.
  - a) Find ∠e.
  - b) Find ∠f.

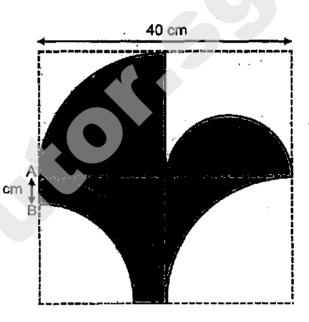


Answer: (a) [3]

(b) \_\_\_\_[2

- 17. A figure is drawn on a square piece of paper with length 40 cm as shown below. Its outline consists of 2 identical large quarter circles, 1 smaller quarter circle, 1 semicircle and 3 straight lines. The length of AB is 4 cm.
  - (a) What is the area of the figure?
  - (b) What is its perimeter?

(Take 
$$\pi = 3.14$$
)



Answer. (a)\_\_\_\_[3]

(b)\_\_\_\_[2]

## Answer Sheets ACS Pri 6 SA2/2019 MATHS

#### Paper 1

1.	4	6.	4	11.	1
2.	4	7.	2	12.	3
3.	1	8.	3	13.	3
4.	2	9.	1	14.	2
5.	3	10.	3	15.	4

16.1.34pm

17.0.27

18.6m

19.1.992

20,47

21.256cm<sup>2</sup>

22.3m+14

23.6

24. 20

25.42

26.\$1800

27.182

29

30.1070

#### Paper 2

28.

1.47.7cm

2.13.3

3.936

4.

5.\$3.20

6,\$40,80

7.130

8a\$32n

8b.\$8.300

9a. Tuesday to Wednesday 9b. Monday to Friday

10.3 Km

11a.106

11b.30

12a.4: 1

12b.100

13.13cm

14.\$360

15.\$27.50

16a.86º

16b.28°

17a.756.04cm<sup>2</sup>

17b.147.32cm



#### AITONG SCHOOL

# 2019 PRELIMINARY EXAMINATION PRIMARY 6

## STANDARD MATHEMATICS PAPER 1 (Booklets A and B)

DURATION	•	1	h
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DATE

23 AUGUST 2019

#### **INSTRUCTIONS**

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

Follow all instructions.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator,

Name:	( )
Class: Primary 6	Marks:
6M	Paper 1 45
Parent's Signature :	Paper 2 55
Date :	Total    Veed a home tutor? Visit smile tutor.sg

#### Paper 1

#### Booklet A

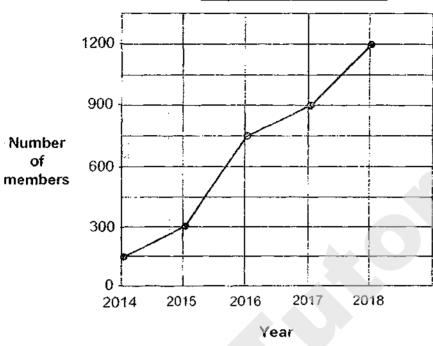
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1 In 9 783 124, the digit 7 stands for 7 × \_\_\_\_\_.
  - (1) 100
  - (2) 1000
  - (3) 10 000
  - (4) 100 000
- 2 Spencer spent 40% of his money on a wallet and had \$240 left. How much did the wallet cost?
  - (1) \$160
  - (2) \$144
  - (3) \$96
  - (4) \$80
- 3 Simplify 6 + 9r 2 + 2r.
  - (1) 7r + 4
  - (2) 7r + 8
  - (3) 11r + 4
  - (4) 11r 8
- 4 Express 1.4 hours in hours and minutes.
  - (1) 1 h 4 min
  - (2) 1 h 10 min
  - (3) 1 h 24 min
  - (4) 1 h 40 min

- 5 What is the digit in the tenths place in the sum of 44.2 and 0.81?
  - (1) 1
  - (2) 0
  - (3) 5
  - (4) 4
- Ahmad, Brayden and Kelly shared a packet of candies in the ratio of 2:3:4. Kelly had 24 candies. How many candies were there in the packet?
  - (1) 72
  - (2) 54
  - (3) 36
  - (4) 30

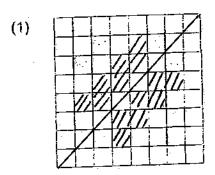
The line graph below shows the number of members in a fitness club from 2014 to 2018. Study the graph and answer questions 7 and 8.

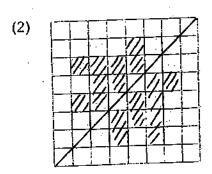
Fitness Club Membership

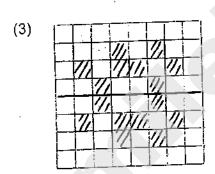


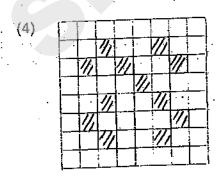
- 7 How many members were there in 2016?
  - (1) 700
  - (2) 750
  - (3) 800
  - (4) 850
- 8 Between which 2 years was there a 100% increase in membership?
  - (1) 2014 and 2015
  - (2) 2015 and 2016
  - (3) 2016 and 2017
  - (4) 2017 and 2018

9 Which figure below does not have any line of symmetry?



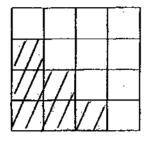




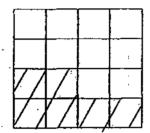


The solid shown is made up of identical unit cubes. Which of the following shows the front view the solid?

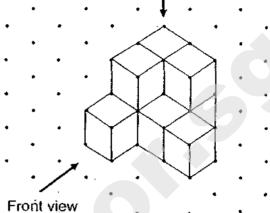
(1)



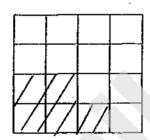
(2)



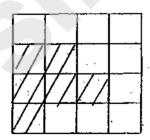
Top view I



(3)

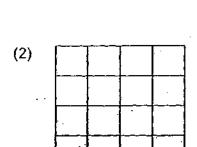


**(**4)

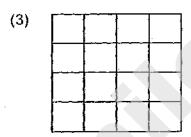


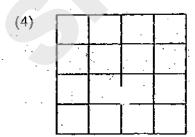
The solid shown is made up of identical unit cubes. Which of the following shows the front view the solid?

(1)



Front view





12	Peter is 13 years old now. His father is 3 times as old as he. What is their total age in 5 years' time?				
	(1)	44 years	•		
	(2)	52 years			
	(3)	57 years			
	(4)	62 years	: ·		
13	If Jei		ssmates scored an average of 80 ma 9 marks, their average score would hid Jeff score?		
	(1)	67			
	(2)	76			
	(3)	82			
	(4)	91			
14	cupo	akes in the aft	O cupcakes in the morning and 40% or emoon. The number of cupcakes left in wind many cupcakes were sold in the aff	in the end was $\frac{1}{3}$ of what	
	745	40			
	(1)	40			
	(2)	150			
	(3) (4)	270			
	(4)	210			
15	In 9	minutes, 5 stu	folding paper cranes during a craft led dents can fold 10 paper cranes. At the o fold 54 paper cranes altogether?		
	(1)	18 min			
	(2)	27 min			
	(3)	45 min			
	(4)	81 min			

#### Paper 1 Booklet B

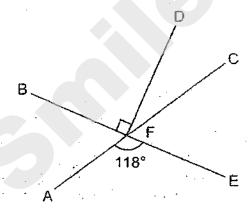
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

Mr Tan sold his car for \$163 458. Round the amount to the nearest thousand dollars.

Ans: \$\_\_\_\_\_

17 In the figure, AFC and BFE are straight lines. Find ∠CFD.



Ans: \_\_\_\_\_ | L

Shan Shan counted a total of 50 sheep and chicken at a farm. She also counted the number of legs of these animals. Help her complete the table below correctly.

Do not write in this space

	Number of animals	Number of legs
Sheep (4 legs each)	(a)	(c)
Chicken (2 legs each)	(b)	24

-	_	-	

Stella had \$m. She spent  $\frac{2}{5}$  of it at the bookshop.

How much money had she left?

Ans: \$
---------

The solid below is made up of 1-cm cubes to form the letter H.

What is the volume of the solid?

Ans: \_\_\_\_\_ cm³

Questions 21 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.	(20 marks)

Do not write in this space

Jack took  $\frac{1}{2}$  h to walk 3 km at an average speed of 6 km/h, and  $1\frac{1}{2}$  h to walk another 6 km at an average speed of 4 km/h. What was his average speed for the whole journey?

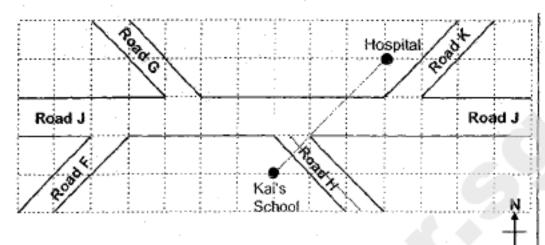
Ans: \_\_\_\_km/h

Kate had 28 more cards than Raj at first. Then, Raj gave 12 of his cards to Kate. In the end, Kate had 3 times as many cards as Raj. How many cards did Raj have at first?

Ans:

23 The figure below shows a map drawn on a square grid around Kai's school.

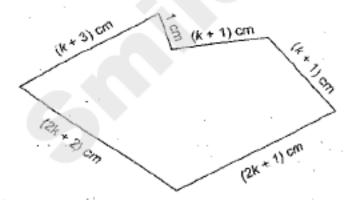
De not write in this space



- (a) In which direction is the hospital from Kai's School?
- (b) Kai was walking along Road J. When he turned into another road, he faced south-east. Which road did he turn into?

Ans:	(a)(b)	ĺ	
	(b)(d)	Ì	

24 Marcus used a piece of wire to make the figure shown below.

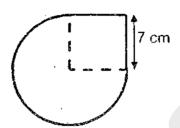


What was the length of the wire used by Marcus? Leave your answer in the simplest form in terms of k.

Ans: \_\_\_\_\_ cm

The figure made up of three identical quarter circles and a square of side 7cm. Find the perimeter of the figure. Take  $\pi = \frac{22}{7}$ .

Do not write in this space



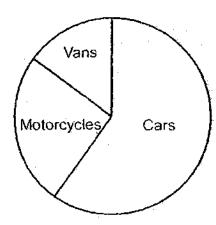
Ans: cm

Jake's mass is  $\frac{4}{7}$  of Lionel's mass. Matthew's mass is  $\frac{5}{8}$  of Jake's mass. What is the ratio of Jake's mass to Lionel's mass to Matthew's mass?

Ans: \_\_\_\_\_

The pie chart below shows 3 types of vehicles that were parked in a carpark. There were 15 motorcycles. Study the pie chart to fill in the table below.

Do not write in this space

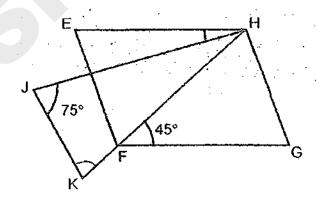


Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (  $\checkmark$  ) in the correct column.

Statement	True	False	Not possible to tell
More than half the vehicles were cars.			
There were 10 more motorcycles than vans in the carpark.			

.

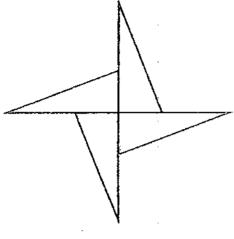
In the figure, EFGH is a parallelogram. HJ = HK, ∠HJK = 75° and ∠HFG = 45°. Find ∠EHJ.



Ans:

29	The figure below is made up of 4 identical right-angled triangles. The shortest side of each triangle is 6 cm and the perimeter of each triangle is 32 cm. Find the perimeter of the figure.

Do not write in this space



Ans: \_\_\_\_\_cm

 $\frac{11}{12}$  m of string is cut into shorter pieces. Each of the shorter pieces must measure  $\frac{1}{6}$  m. What is the length of the remaining piece of string?

Ans: m



## AI TONG SCHOOL

## 2019

# PRELIMINARY EXAMINATION PRIMARY 6

### STANDARD MATHEMATICS PAPER 2

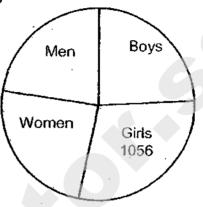
	PA	PER 2	
DURATION	: 1 h 30 mi	n	
DATE	: 23 AUGU	ST 2019	
Follow all instructions Answer all guest	oooklet until you ar ions.		
Name:		( )	
Class: Primar	6		• • • •
6M	<u> </u>	· •••••	Marks:
Parent's Signal	ure :		
Date	*	···	55

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 in the units stated. (10 marks)

Do not write in this space.

The pie chart below shows the number of visitors to a Theme Park last Saturday. There were a total of 3520 visitors.

What percentage of the visitors were men?



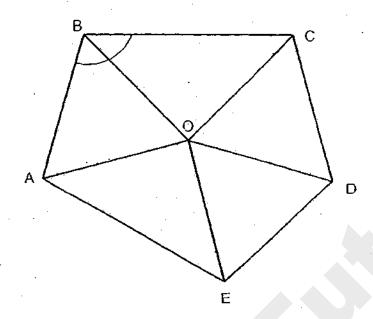
Ans: %

Box A when empty has a mass of 1.8 kg. It has a mass of 21.4 kg when it contains 8 identical packets of flour and 6 identical packets of salt. Each packet of flour has a mass of 2 kg 60 g. What is the mass of each packet of salt? Give your answer in kilograms.

Ans: \_\_\_\_\_kg

3 In the figure, AOB, EOD and DOC are equilateral triangles. AE = BC Find ∠ABC.

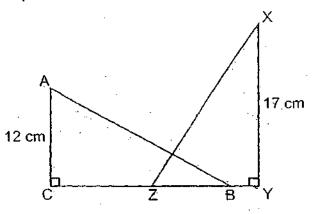
Do not write in this space.



Ans: \_\_\_\_\_

In the figure below, ABC and XYZ are identical right-angled triangles. The total area of the shaded parts is 130 cm². Find the area of the unshaded part.

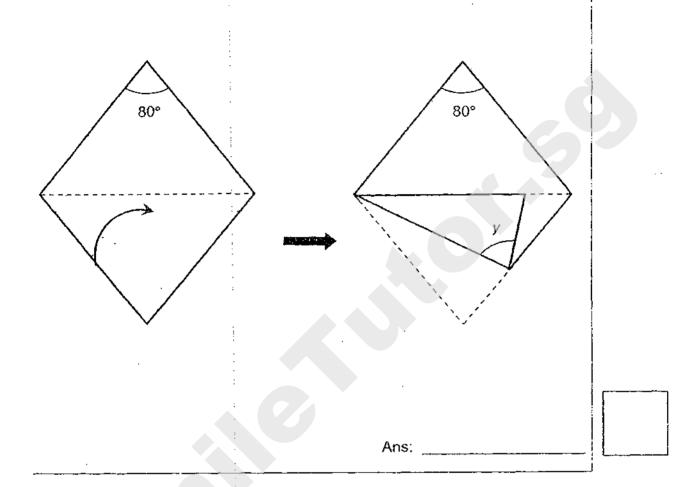
2



Ans: on

5 A piece of paper in the shape of a rhombus is folded along the dotted line as shown. Find ∠y.

Do not write in this space.

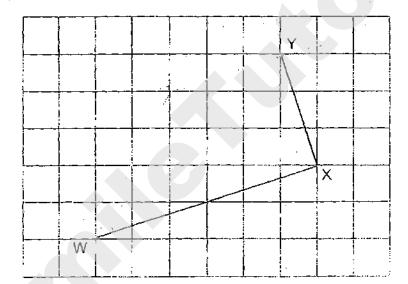


For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in bracket [ ] at the end of each question or part-question. For questions which require units, give your answers in the units stated

Do not write in this space

(45 marks)

- In the square grid, WX and XY are two sides of a trapezium. WX is parallel to ZY. WX is twice the length of ZY.
  - (a) Complete the drawing of trapezium WXYZ. Label Z.
  - (b) Measure and write down the size of ∠XWZ.

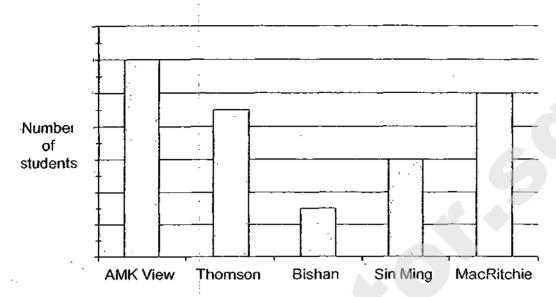


[2]

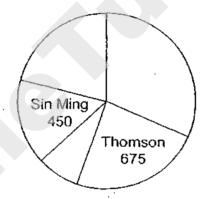
Ans: (b) \_\_\_\_\_[1]

7 The graph below shows the number of students in five different schools in 2019. The number of students is not shown on the scale.

Do not write in this space



The same data is partially shown in the pie chart below:



- (a) The total enrolment of two of the schools is equal to the enrolment of AMK View School. Which two schools are these?
- (b) How many students are there in MacRitchie School?

Ans: (a) \_\_\_\_\_ and \_\_\_\_ [1]

(b)	[2]
(V)	4

	les, each of radius 16 I lines join the centres se shaded part. Take	s of the circles to form a squa $\pi = 3.14$ .	
		Ans:	[3]
in opposite direction apart. Pete's aver	ons along a straight r	me time from the same place bad. After 3h, they were 510. km/h faster than Dave's avera ed?	3 km

At the Home Appliance Warehouse Sale, Mr Chua bought a vacuum cleaner and a washing machine for a total of \$2980 after discount. He paid \$464 more for the washing machine than the vacuum cleaner.

Do not write in this space

- (a) Find the percentage discount given for the vacuum cleaner.
- (b) Find the usual price of the washing machine.



Vacuum Cleaner Usual price: \$1480

Discount: 🧐



Washing Machine Discount: 20%

Ans:	(a)	(2]	
			Ė

(b)\_\_\_\_[2]

11	The number of boys and girls in a hall was in the ratio 4:5.  After 170 boys and 20% of the girls went back to their classrooms, the ratio of the number of boys to the number of girls in the hall became 1:2. How many children were there in the hall in the end?	Do not write in this space
		· ·
		·
•		
	Ans:[3]	

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Eddy sold phone cards during a part-time holiday job. For every phone card sold, he would receive \$0.60. For every 20 phone cards sold, he would receive an additional \$4.50.

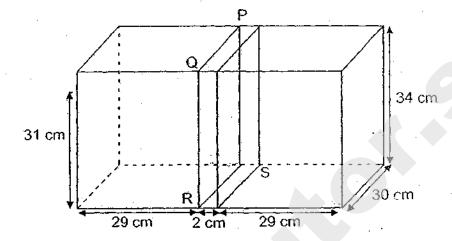
Do not write in this space.

- (a) How much did he receive after selling 20 phone cards?
- (b) How many phone cards did Eddy need to sell to receive at least \$150?

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

A rectangular tank measures 60 cm by 30 cm by 34 cm. It is divided into two parts by a piece of plastic PQRS that is 2 cm thick. One part of the container contains water to a depth of 31 cm. When the piece of plastic PQRS is removed, what is the height of the water level in the tank? Give your answer correct to 1 decimal place.

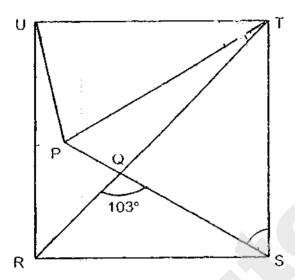
Do not write in this space.



Ans: \_\_\_\_\_\_[4

14 In the figure, RSTU is a square. TU = TP and  $\angle$ RQS =  $103^{\circ}$ . Find  $\angle$ PTU.

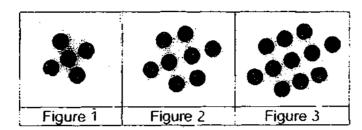
Do not write in this space



Ans: \_\_\_\_\_[4]

15	Three girls had 144 sweets altogether. Aileen gave some of her sweets to Betty and Betty's sweets were doubled. Then, Betty gave some of her sweets to Catty and Catty's sweets were doubled. As a result, the three girls had an equal number of sweets each. How many sweets did Betty	Do not write in this space.
	have at first?	
		) 1
		<u> </u>
		• •
		<u> </u>
		Į Į
:		İ
-		<b>[</b> .
		}
•		
		ļ

16 The figures in the pattern below are made up of dots.



Do not write in this space.

- (a) How many dots are required to form the Figure 5?
- (b) Write down the number of dots in the Figure 50.
- (c) Which Figure has 269 dots?

Ans:	(a)	[1]
------	-----	-----

Mrs Sim sold some tennis rackets and badminton rackets for \$17 043. Each tennis racket cost \$273 and each badminton racket cost  $\frac{3}{7}$  as much as the tennis racket.  $\frac{2}{5}$  of the rackets sold were tennis rackets.

Do not write in this space.

- (a) How much did each badminton racket cost?
- (b) How many badminton rackets were sold?

Ans: (a) [1

(b) \_\_\_\_\_[4

#### END OF PAPER CHECK YOUR WORK CAREFULLY!

SCHOOL: AI TONG PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

CONTACT: CALL MR GAN @ 9299 8971, 8606 5443

#### **PAPER 1 BOOKLET A**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	3	3	2	2	2	1	4	3

Q 11	Q12	Q13	Q14	Q15
2	4	1	2	4

#### **PAPER 1 BOOKLET B**

Q16)	\$163000
Q17)	28°
Q18)	a)38 b)12
	c)152
Q19)	\$(\frac{3m}{5})
Q20)	24cm³
Q21)	3 + 6 = 9 $\frac{1}{2} + \frac{1}{2} = 2$ $9 \div 2 = 4.5 \text{km/h}$
Q22)	2u→12 + 28 + 12 = 52 1u→26 26 + 12 = 38  Need a home tutor? Visit smiletutor.sg

Q23)	a)North-east
	b)Road H
Q24)	(7k + 9)cm
-,-	
Q25)	22 66
GLEO,	$\frac{3}{4} \times \frac{22}{7} = \frac{66}{28}$
	_ 33
	$=\frac{33}{14}$
	$\frac{33}{14} \times \frac{14}{1} = \frac{33}{1}$
	= 33
	33 + 7 + 7 = 47
Q26)	8:14:5
Q27)	True
	Not possible to tell
Q28)	75 + 75 = 150
	180 - 150 = 30
	45 - 30 = 15°
Q29)	32 - 6 = 26
	26 - 6 = 20
	20 x 4 = 80 cm
Q30)	$\frac{11}{12} \div \frac{1}{6} = \frac{11}{12} \times \frac{6}{1} = \frac{11}{2}$
	12
	·
	$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12} \mathrm{m}$

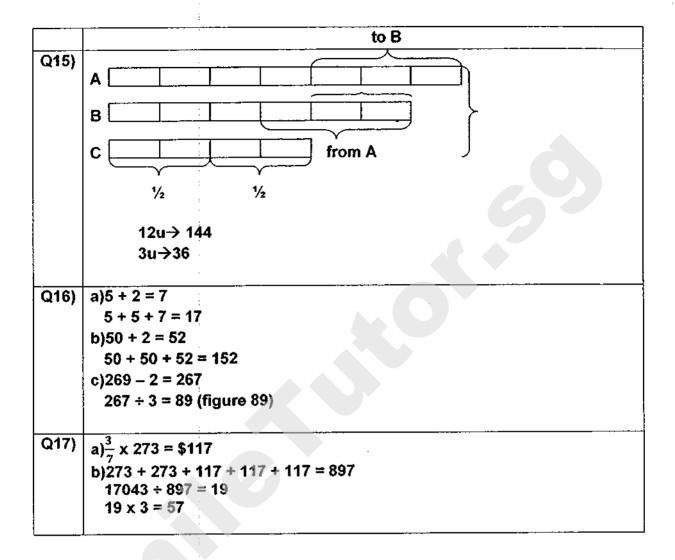
## PAPER 2

Q1)	$3520 \div 2 = 1760$ $1760 - 1056 = 704$ $\frac{704}{3520} = \frac{1}{5} = \frac{20}{100} = 20\%$	
Q2)	21.4 - 1.8 = 19.6 2.06 x 8 = 16.48 19.6 - 16.48 = 3.12 3.12 ÷ 6 = 0.52kg	
		Need a home tutor? Visit smiletutor.sg

Q3)	360° - 60° - 60° - 60° = 180°
•	180° ÷ 2 = 90°
	180° - 90° = 90°
	90° ÷ 2 = 45°
	45° + 60° = 105°
Q4)	½ x 12 x 17 = 102
	102 + 102 = 204
	204 – 130 = 74
	$74 \div 2 = 37 \text{cm}^2$
Q5)	180° 80° = 100°
	100° ÷ 2 = 50°
I	50° ÷ 2 = 25°
	$180^{\circ} - 80^{\circ} - 25^{\circ} = 75^{\circ}$
Q6)	a)
	X
	b)45°
Q7)	675 - 450 = 225
	$225 \div 3 = 75$
	225 + 675 = 900
	a)Thomson and Bishan
	h1750
Q8)	16 + 16 = 32
-	32 x 32 = 1024
	$3.14 \times 16 \times 16 = 803.84$
	1024 - 803.84 = 220.16 cm <sup>2</sup>
Q9)	11.2 x 3 = 33.6
• •	510.3 - 33.6 = 476.7
	476.7 ÷ 2 = 238.35
	238.35 ÷ 3 = 79.45 km/h
	Need a home tutor? Visit smiletutor.sg

Q10)	1 .		
	2516 ÷ 2 = 1258		
	85% x 1480 = 1258		
	100 – 85 = 15%		
	b)2980 - 1258 = 1722		
	80% →\$1722		
	100% →\$2152.50		
Q11)	B : G		
	4u : 5u		
•	-170 : 1u (20%x 5u)		
•	(2u)1p: 2p(4u)→6u (whole thing		
	1p = 4u - 170		
	2p = 8u - 340		
	4u = 8u - 340		
	1u = 85 6u = 510		
	60 - 510		
Q12)	0.6 x 20 = 12		
	12 + 4.5 = 16.5		
	16.5 x 9 = 148.5		
	148.5 + 0.6 + 0.6 + 0.6 = 150.3		
	$20 \times 9 = 180$		
	180 + 3 = 183		
	a)\$16.50		
	b)183		
Q13)	60 x 30 x 34 = 61200		:
	$2 \times 30 \times 34 = 2040$		
	31 x 29 x 30 = 26970		
	60 x 30 = 1800		: -
	26970 ÷ 1800 ≈ 15.0 cm		. ,
Q14)	180 – 103 = 77		
	180 - 103 - 45 = 32		
	90 – 32 = 58		
	180 - 58 - 58 = 64		
	90 – 64 = 26°		
	, i		
	t .	•	

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#### HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

## PAPER 1 (BOOKLET A)

Name:( )	Parent's Signature
Class: Primary 6	

#### Marks:

Marks:		 
Paper 1	Booklet A	20
	Booklet B	
		25
Paper 2		
		55
Total		
		100

Total Time for Booklets A and B: 1 hour

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.
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) and shade your answer in the Optical Answer Sheet.

(20 marks)

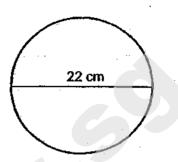
- 1 What does the digit 9 in 6.789 stand for?
  - (1) 9 thousandths
  - (2) 9 hundredths
  - (3) 9 tens
  - (4) 9 ones
- 2 Express 10k + 8 2k 3 in the simplest form.
  - (1) 5k + 8
  - (2) 8k + 5
  - (3) 12k + 5
  - (4) 16k-3
- In a class of 40 students, 15% of them do not wear spectacles.

  How many students wear spectacles?
  - (1) 6
  - (2) 15
  - (3) 25
  - (4) 34

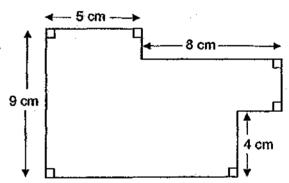
Page 1

(Go on to the next page)

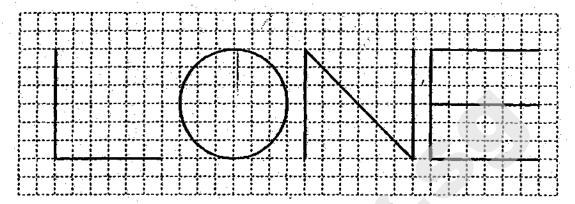
- The figure shows a circle with diameter 22 cm. Find the area of the circle in terms of  $\pi$ .
  - (1)  $11\pi \text{ cm}^2$
  - (2)  $22\pi \text{ cm}^2$
  - (3)  $121\pi \text{ cm}^2$
  - (4)  $282\pi \text{ cm}^2$



- 5 What is the perimeter of the figure shown below?
  - (1) 26 cm
  - (2) 39 cm
  - (3) 43 cm
  - (4) 44 cm



6 Four letters are shown on the square grid below.

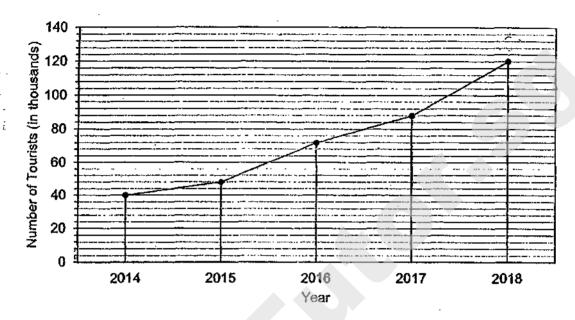


How many of the letters above is/are NOT symmetrical?

- (1) 1
- (2) 2
- (3) 3
- (4) 4
- 7 A number when divided by 20 gives a remainder of 6. Which of the following can be added to the number to change it to a multiple of 8?
  - (1) 10
  - (2) 7
  - (3) 5
  - (4) 4

Use the information below to answer Questions 8 and 9.

The line graph below shows the number of tourists who visited Country X from 2014 to 2018.

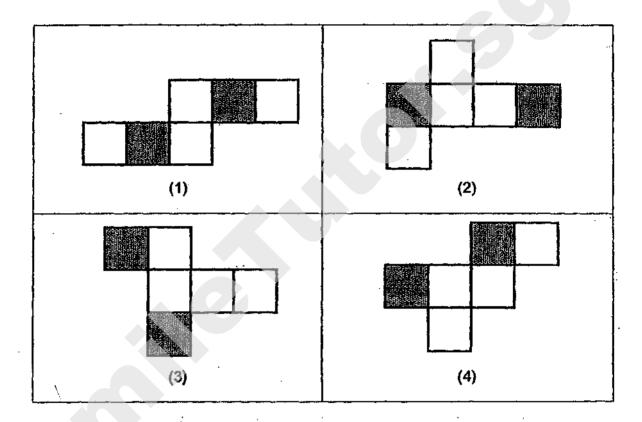


- 8 In which of the following periods did the number of tourists increase the most?
  - (1) 2014 to 2015
  - (2) 2015 to 2016
  - (3) 2016 to 2017
  - (4) 2017 to 2018
- The number of tourists in 2019 was a 20% decrease from the number of tourists in 2018. How many tourists (in thousands) visited Country X in 2019?
  - (1) 24
  - (2) 90
  - (3) 96
  - (4) 100

10 The figure shows a cube. Two faces of the cube were shaded and the remaining faces were white.



Which one of the following is NOT the net of the cube?

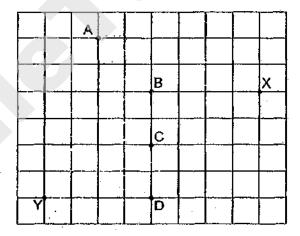


The table below shows the number of books read by 37 students in August. The number of students who read 5 books were not shown in the table.

Number of books	1	2	3	4	5
Number of students	10	8	7	9	?

How many students read at least 3 books in August?

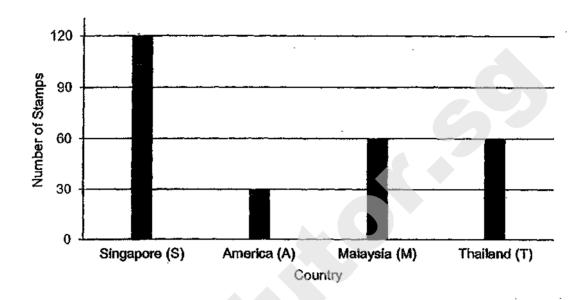
- (1) 7
- (2) 16
- (3) 19
- (4) 25
- 12 Five attractions on a map of a town are shown in the square grid below.



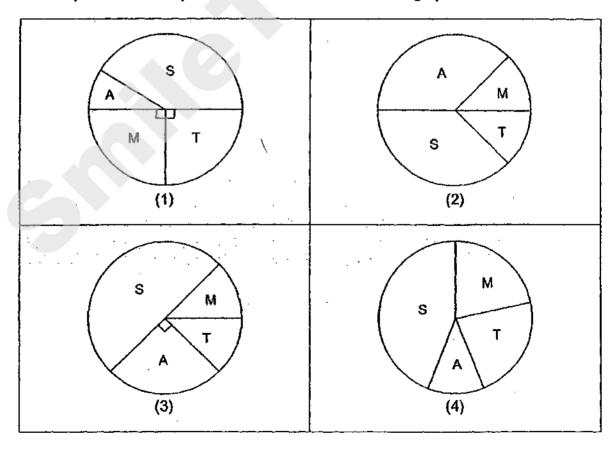
Mike is at one of the attractions. He is facing X. When he turns 135° clockwise, he faces Y. Which attraction is Mike at?

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

# 13 The bar graph shows the number of stamps from four different countries that Peter collected.



### Which pie chart best represents the information in the bar graph?



Page 7

- Calista and Dylan had the same number of stickers at first.
   After Calista gave <sup>1</sup>/<sub>8</sub> of her stickers to Dylan, she had 24 fewer stickers than Dylan.
   How many stickers did Calista and Dylan have altogether?
  - (1) 84
  - (2) 96
  - (3) 192
  - (4) 216
- Jane packed 408 cupcakes into a number of boxes.

  Each box contained either 10 or 6 cupcakes.

  Given that Jane used the least number of boxes to pack all the cupcakes, how many of the boxes contained 10 cupcakes each?
  - (1) 25
  - (2) 26
  - (3) 39
  - (4) 40



#### HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name:( )	
Class: Primary 6	25

Total Time for Booklets A and B: 1 hour

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.

You are not allowed to use a calculator.

Or at	iions <mark>16</mark> to <b>20</b> carry uestions which requ	iire units, aiv	e your answers	in the units state	ed.	Do not writ in this spac
	· · · · · · · · · · · · · · · · · · ·				(5 marks)	
	·· <u>·</u> ··-	· · · · · · · · · · · · · · · · · · ·				
6	Find the value of	108.5 + 1.99	)			l. 
		•		•		
			٠.			
		•. •				
						<u></u>
					,	
			Ans:			<u> </u>
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>			
,	Express $5\frac{2}{25}$ as	a decimal.				
	25			·		
				e e e e e e e e e e e e e e e e e e e	·	
					·	
			Ans:			
			Ans:			
		28_2	9			
	Find the value of	$7a + \frac{28-2}{5}$	Ans:			
	Find the value of	$7a + \frac{28 - 2}{5}$	9			
	Find the value of	70 +	9			
	Find the value of	70 +	9			
	Find the value of	70 +	9			
	Find the value of	70 +	9			
	Find the value of	70 +	9			
	Find the value of	70 +	9			

	Janet thought of a number with 2 decimal places. When she rounded it to the nearest whole number, it became 37. What was the greatest possible number that Janet could have thought of?	Do not write in this space
		<u> </u>
		<u> </u>
	Ans:	<u> </u>
	Find the average of the following list of numbers:	
٠.		
	Ans:	

Questions 21 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.

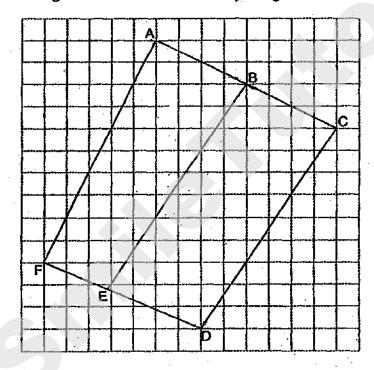
Do not write in this space

(20 marks)

21 List all the common factors of 14 and 35

Ans:

22 The figure below is drawn on a square grid.



- (a) Name two lines that are parallel to each other.
- (b) Name two lines that are perpendicular to each other.

Ans: (a) \_\_\_\_\_ and \_\_\_\_

(b) \_\_\_\_\_ and \_\_\_\_

Page 3

23	The opening hours of a gym are shown below.
	the opening hours of a gynt are one with botom.

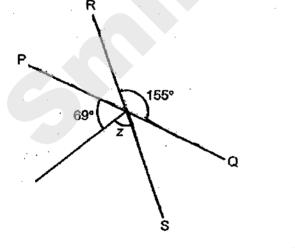
Do not write in this space



- (a) How long is the gym open each day?
- (b) Mrs Ling spent 1 h 45 min at the gym. Given that she finished her workout at 5.25 p.m., what time did she start her workout?

Ans: (a)	h	
(b)	p.m.	

24 In the figure, PQ and RS are straight lines. Find ∠z.



Ans:

Page 4

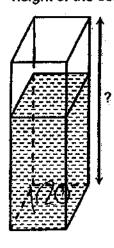
Find the area of the shaded part of the figure. 25 Do not write in this space 45 cm 20 cm 8 cm Ans: 26 The bar graph shows the number of funfair tickets sold by a group of students. The bar showing the number of students who sold 3 tickets each is not shown. Given that  $\frac{3}{8}$  of the students sold 3 tickets each, find the number of students who sold 3 tickets each. 30-25 Number of students 20 15 3 2 5 Number of funfair tickets sold by each student

Ans:

Page 5

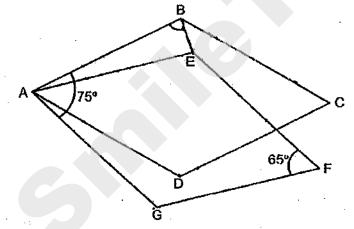
The rectangular tank shown below is  $\frac{2}{3}$ -filled with water. The base area of the tank is 120 cm<sup>2</sup>. Given that it contained 2.4 litres of water, what is the height of the container?

Do not write in this space



Ans: \_\_\_\_\_ cm

In the figure, ABCD and AEFG are identical rhombuses, ∠BAG = 75° and ∠EFG = 65°. Find ∠ABE.



Ans: \_\_\_\_\_\_

Page 6

First 1 h	our	\$12		
Every a	$\frac{1}{2} \text{ hour}$	\$4		
What would be the I	renting an electric scoot latest time that she must er using the 24-hour cloc	return the scooter		
				<u></u>
· .	Ans:			
the diameter of the l	Ans:  o circles. The ratio of the arge circle is 1 , 2. The athers the shaded part of the figure.	rea of the small cir	small circle to cle is 42 cm²	
the diameter of the l	o circles. The ratio of th	rea of the small cir	small circle to cle is 42 cm²	

Page 7 End of Paper 1

Ans:



#### HENRY PARK PRIMARY SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

#### PAPER 2

	Parent's Signature
Name:( )	
Class: Primary 6	55

Time for Paper 2: 1 hour 30 minutes

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

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

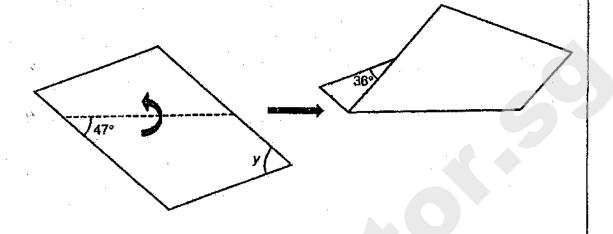
Write your answers in this booklet.

You are allowed to use a calculator.

swe	s in the spaces provided. For questions which require units, give your s in the units stated.	in this spa
	(10 marks)	
	Joanne had a ribbon measuring 18 m in length. She cut the ribbon into	
	shorter pieces, each measuring $\frac{4}{5}$ m.	
	•	
	(a) What would be the most number of $\frac{4}{5}$ -m pieces that she could cut?	
	(b) What would be the length of the ribbon left in the end?	
	Ans: (a)	
	(b)m	<del> </del>
	The numbers on Card X and Card Y are 3-digit numbers. The first digit on	
···.	Card Y is shown below.	
	3	
•	Card X Card Y	
	Given that the average of the two numbers on Card X and Card Y is 300.	
	ind the smallest possible number on Card X.	
:		).
		1
	Ans:	

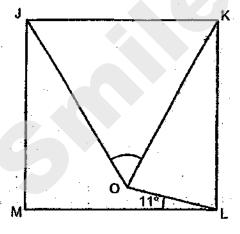
A piece of paper in the shape of a parallelogram is folded along the dotted line as shown below. Find  $\angle y$ 

Do not write in this space

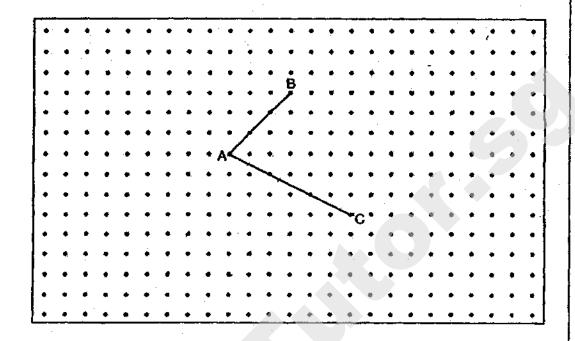


Ans:

4 In the figure below, JKLM is a square, ∠MLO = 11° and KL = KO. Find ∠JOK.



Ans: \_\_\_\_\_\_°



- (a) X is one of the dots inside the box. Draw two lines AX and CX to complete a right-angled triangle ACX with AC = AX.
- Y in one of the dots inside the box. Draw two lines BY and CY to complete a trapezium ABYC where AB is parallel to CY and the length of CY is twice the length of AB.

the e	nd of each question or part-question. (45 marks)	
6	In a Sports Meet, the ratio of the number of runners in the Blue Team to the Red Team is 3:5. The ratio of the number of runners in the Yellow Team to the Blue Team is 3:4. There are 66 more runners in the Red Team than the Yellow Team. How many runners are there altogether?	
	Ans:[3]	
7	Isaac had 1.2 m of wire. He used all of it to form two equilateral triangles shown below. $y \text{ cm}$ $(y + 4) \text{ cm}$	
	(a) Find the total perimeter of both triangles in terms of y in the simplest form.	
	(b) Find the value of y.	

(b)

Ans: (a)

(Go on to the next page)

[1]

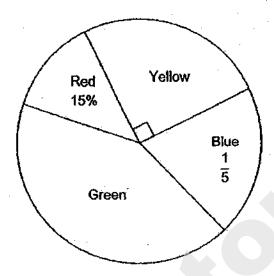
[2]

	For every plano that Siti sells, she earns a sum of money as shown below.	in this space
	10% of the first \$500 of the selling price	
	and	
	8% of the remaining selling price	
	Siti sold a piano and earned \$650. What was the selling price of the piano?	
		H
	Ans:[3]	
9	Ans:[3]  At first, Kendrick had a total of 117 pencils and erasers altogether. He gave away 25 pencils and bought more erasers to increase the number of his erasers by 60%. In the end, Kendrick had a total of 137 pencils and erasers altogether. How many pencils did Kendrick have at first?	
9	At first, Kendrick had a total of 117 pencils and erasers altogether. He gave away 25 pencils and bought more erasers to increase the number of his erasers by 60%. In the end, Kendrick had a total of 137 pencils and erasers	
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Start point	Haifway point	End point		
		·		
	·			
	•			
		•	-	
			·	

11 The pie chart below represents the number of marbles of four different colours in a box. There were 135 more green marbles than red marbles.

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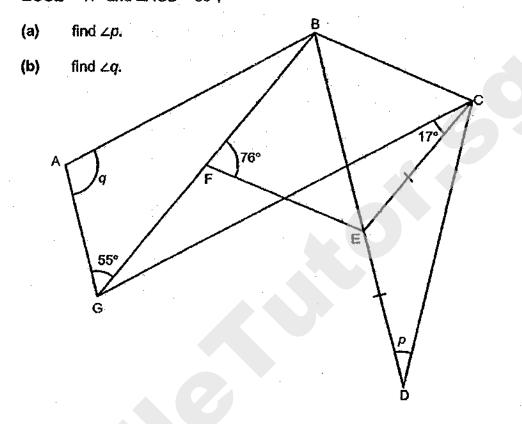
- (a) What percentage of the marbles in the box were green in colour?
- (b) All the marbles in the box were placed in 48 bags. Each bag contained either 8 for 14 marbles. How many of the bags contained 14 marbles?

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

Page 7

In the figure, ABCG is a trapezium and BCEF is a rhombus. Lines BED and BFG are straight lines. Given that AB // GC, EC = ED, ∠BFE = 76°, ∠GCE = 17° and ∠AGB = 55°,

Do not write in this space



Ans: (a)	(2]	
(b)		

Page 8

Tina	had some 20¢, 50¢ and \$1 coins with a total value of \$300.60.	Dor
	of the coins were $20\phi$ coins and $\frac{1}{8}$ of the remaining coins were	in th
\$1 cc	<b>.</b>	
(a)	What is the ratio of the number of 20¢ coins to the number of 50¢ coins to the number of \$1 coins? Express your answer in the simplest form.	
(b)	How many coins did Tina have altogether?	

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

Dom had a square piece of paper with an area of 64 cm<sup>2</sup>. He cut out one quarter circle and three identical semicircles from it as shown below. The quarter circle had the same radius as each semicircle.

Do not write in this space

- (a) What is the radius of the quarter circle?
- (b) What is the perimeter of the remaining piece of paper?

(Take  $\pi = 3.14$ )



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

Page 10







Figure 2



Figure 3



Figure 4

The table shows the number of triangles and circles for the first four (a) figures. Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of triangles	2	3	4	5	
Number of circles	6	8	9	11	
Total number of triangles and circles	8	11	13	16	

[1]

- (b) A figure in the pattern has a total of 51 triangles and circles. What is the Figure Number?
- (c) How many circles did John use for Figure 115?

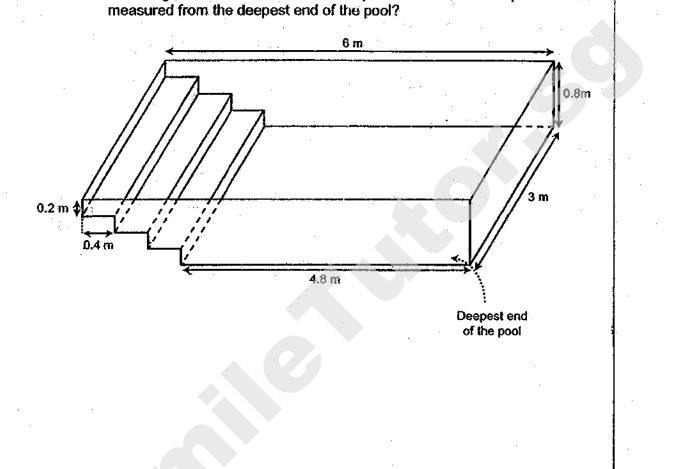
Ans: (b) Figure	[2	2
-----------------	----	---

(c)

Page	4	1

The figure below shows an empty wading pool with some steps at one side of the pool. Each step measures 0.2 m in height and 0.4 m in length. Mr Hank wants to fill the pool with water using a hose that allows water to flow at a rate of 1.395 m<sup>3</sup> per hour. How long will it take Mr Hank to fill the pool with water to a depth of 0.7 m

Do not write in this space



Ans: \_\_\_\_\_[4]

Page 12

	17		Two are i	squa paint	are tile ed in t	es of e he sh	equal ape o	sides a of ident	are sho ical qu	wn beio arter cin	w.Son cles ( 🖣	ne parts	s of the	tiles	Do not write in this space
			,	20 сп	ı∏.			14 cm							
			mea		5.2					pattern breadth					
3.6 m														•	
		· ·	•								· · ·_				
	*								5.2 m						
			(Tak	eπ =	$(\frac{22}{7})$					l by the					
				•					A	ıns: _	·			[4]	

(Additional working space for Question 17)

Do not write in this space

Setters:

Mrs Elaine Chua, Mrs Irene Tan, Mr Jenfry Tseng, Mrs Ling Lee Ching and Mr Yip Yew Fei

Page 14 End of Paper 2 SCHOOL: HENRY PARK PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	4	3	4	1	1	4	3	1

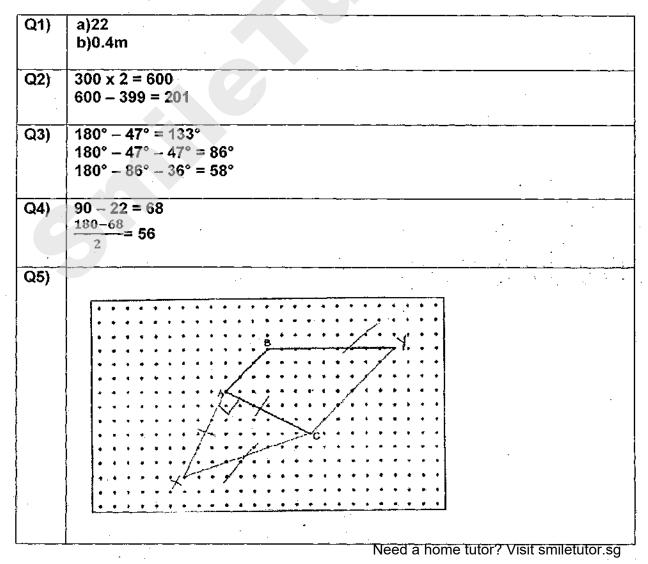
Q 11	Q12	Q13	Q14	Q15
3	2	4	3	3

# **PAPER 1 BOOKLET B**

Q16)	110.49
Q17)	5.08
Q18)	$63 + \frac{28 - 18}{5} = 63 + \frac{10}{5}$
	= 63 + 2 = 65
Q19)	37.49
Q20)	$70 \div 5 = 14$
Q21)	1 and 7
Q22)	a)EB and DC
	b)FA and AB
Q23)	a)13h
	b)3.40 p.m.
Q24)	155° – 69° = 86°
Q25)	$\frac{1}{2} \times 6cm \times 45cm = 270cm^2$
Q26)	$\frac{5}{8}T = 4 + 12 + 15 + 9 = 40$
	$\frac{3}{8}T = 40 \div 5 \times 3 = 24 tickets$
Q27)	$\frac{2}{3}T = 2400ml$
	$T = 2400ml \div 2 \times 3 = 3600ml \rightarrow 3600cm^3$

:	$\frac{3600cm^2}{120cm^2} = 30cm$			
Q28)	85°	<del></del>	<del></del>	
Q29)	First hour $\rightarrow $36 - $12 = $24$ $$24 \div $4 = 6$ $6 \times \frac{1}{2} = 3h$ 3h + 1h = 4h			
Q30)	$7.30 + 4 = 11.30$ $126cm^{2}$			· · ·

# PAPER 2



<del></del>		
Q6)	20u – 9u = 11u	
	11u = 66	
	1u = 66 ÷ 11 = 6   9u + 12u + 20u = 41u	
	41u = 6 x 41 = 246	
	410 0 X 41 = 240	
Q7)	a)(3y + 3y + 12)cm	
	= (6y +12)cm	
	b)(6y +12)cm = 120cm	
· .	6y cm + 12cm = 120cm	
	(6y)cm = 120cm - 12cm = 108cm	
·	1y = 108cm ÷ 6 = 18cm	
i		
Q8)	650 - 50 = 600	
	600 ÷ 8% = 7500	
	7500 + 500 = 8000	
Q9)	$u+p=117\to E1$	
	$u-25+1\frac{3}{5}p=137\to E2$	
	u=117-p	
	$u = 137 - 1\frac{3}{5}p + 25$	
	$117 - p = 137 - 1\frac{3}{5}p + 25$	
	$\frac{3}{5}p = \frac{45 \times 5}{3} = 75$	
	u = 117 - 75 = 42 pencils	
Q10)	-	
	5000 ÷ 200 = 25min	
	25min after 11.50 a.m. is 12.15 p.m.	
Q11)	a)100% - 25% - 15% - 20% = 40%	
	b)15% + 135 →40%	
-	25% → 135	
	1% →135 ÷ 25 = 5.4	
'	81 + 216 + 135 + 108 = 540	
	Assume all as 8 marbles	
	8 x 48 = 384	•.
	540 384 = 156	
	156 ÷ 6 = 26 bags	
040	AV4000 700) 4 0 500	
Q12)	a)(180° – 76°) ÷ 2 = 52°	
·. :	180° – 52° = 128°	:
· · · · · · · · · · · · · · · · · · ·	$(180^{\circ} - 128^{\circ}) \div 2 = 26^{\circ}$	
	b)180°- 59° = 121°	Need a home tutor? Visit smiletutor.sc

	121° – 52° – 52° = 17°
	180° – 17° – 55° = 108°
Q13)	a)16:21:3
,	b) $3.2u + 10.5u + 3u = 16.7u$
	16.7u = \$300.60
	1u = \$300.60 ÷ \$16.7u = 18
	16u + 21u + 3u = 40u
	40u = 40 x 18 = 720 coins
Q14)	$a)\sqrt{64cm^2} = 8cm$
,	8cm ÷ 4 = 2cm
	b)2cm + 2cm + 2cm + 2cm + 2cm + 4cm =16cm
	Arc of 1 quarter circle = $\frac{1}{4}$ x $\pi$ x d = $\frac{1}{4}$ x 3.14 x 4cm = 3.14cm
	3.14cm x 7 = 21.98cm
	3.14cm x 7 = 21.98cm 21.98cm + 16cm = 37.98cm
Q15)	
Q15)	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b)18
Q15)	21.98cm + 16cm = 37.98cm a) 6, 12, 8
	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177
Q15) Q16)	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup>
	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup>
·	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup>
	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup> 12.6m <sup>3</sup> - 1.44m <sup>3</sup> = 11.16m <sup>3</sup>
Q16)	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup> 12.6m <sup>3</sup> - 1.44m <sup>3</sup> = 11.16m <sup>3</sup> 11.16m <sup>3</sup> ÷ 1.395m <sup>3</sup> = 8h
·	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup> 12.6m <sup>3</sup> - 1.44m <sup>3</sup> = 11.16m <sup>3</sup> 11.16m <sup>3</sup> ÷ 1.395m <sup>3</sup> = 8h
Q16)	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup> 12.6m <sup>3</sup> - 1.44m <sup>3</sup> = 11.16m <sup>3</sup> 11.16m <sup>3</sup> ÷ 1.395m <sup>3</sup> = 8h 520 ÷ 20 = 26 · 26 ÷ 3 = 8R2
Q16)	21.98cm + 16cm = 37.98cm a) 6, 12, 8 b) 18 c) 3 x 58 + 13 = 177 6m x 3m x 0.7m = 12.6m <sup>3</sup> 0.4m x 0.2m x3m = 0.24m <sup>3</sup> 0.24m <sup>3</sup> x 6 = 1.44m <sup>3</sup> 12.6m <sup>3</sup> - 1.44m <sup>3</sup> = 11.16m <sup>3</sup> 11.16m <sup>3</sup> ÷ 1.395m <sup>3</sup> = 8h 520 ÷ 20 = 26.



# Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 1 (Booklet A)

Name : ( )	
Class : Primary 6	
Date: 27 August 2019	
Total duration for Booklets A and B: 1 hour	

## **INSTRUCTIONS TO CANDIDATES:**

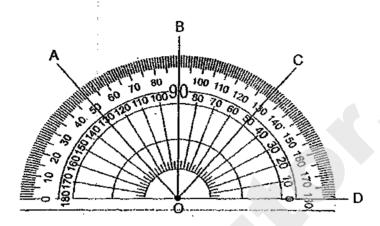
- 1. Write your Index No. in the boxes at the top right hand corner.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. The use of calculators is **NOT** allowed.

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 your answer on the Optical Answer Sheet.

(20 marks)

- 1. In which one of the following numbers does the digit 6 have the smallest value?
  - (1) 76 859
  - (2) 68 597
  - (3) 597 684
  - (4) 498 765
- 2. A tailor had 5 m of cloth. He used  $\frac{3}{8}$  of it. How much cloth had he left?
  - (1)  $4\frac{5}{8}$  m
  - (2)  $4\frac{3}{8}$  m
  - (3)  $3\frac{1}{8}$  m
  - (4)  $1\frac{7}{8}$  m
- 3. The length of a double-decker bus in Singapore is about \_\_\_\_\_
  - (1) 11 cm
  - (2) 11 m
  - (3) 110 cm
  - (4) 110 m

4. Study the straight lines on the protractor below. Which two angles are equal?



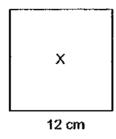
- (1)  $\angle AOC = \angle BOD$
- (2) ∠AOB = ∠BOC
- (3) ∠BOC = ∠COD
- (4)  $\angle AOB = \angle COD$
- 5. Find the average of the following numbers.

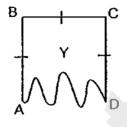
£			<del></del>
10	18	. 26	30

- (1) 18
- (2) 21
- (3) 26
- (4) 28
- 6. A machine packs 25 apples into a box in 1 minute. At the same rate, how many apples can be packed in 1 hour 40 minutes?
  - (1) 1000
  - (2) 1500
  - (3) 2500
  - (4) 3500

7. A string was used to form Square X. The string was then used to form Figure Y with three straight sides and one curved side.

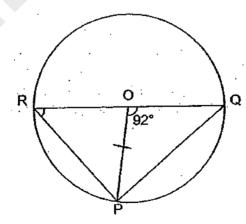
Square X has the same perimeter as Figure Y with AB = BC = CD = 10 cm. Find the length of the curved side AD.





- (1) 10 cm
- (2) 12 cm
- (3) 18 cm
- (4) 30 cm
- 8. In the diagram below, O is the centre of the circle and RQ is its diameter. RPQ is a triangle and P, Q and R are points on the circumference of the circle.

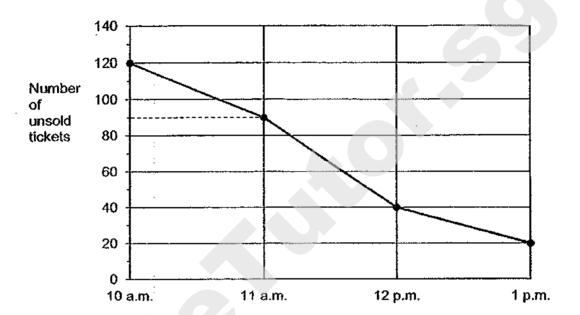
 $\angle$ QOP = 92°, find  $\angle$ ORP.



- (1) 41°
- (2) 44°
- (3) 46°
- (4) 88°

9. The ticketing office at a cinema opens at 10 a.m.

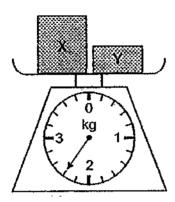
The line graph below shows the number of unsold tickets at the ticketing office after three hours.

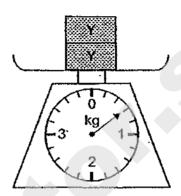


How many tickets were sold in the first hour?

- (1) 120
- (2) 90
- (3) 30
- (4) 20
- 10. At 11.00 a.m., a car left Town X for Town Y travelling at a speed of 80 km/h. At the same time, another car left Town Y for Town X travelling at a speed of 100 km/h. They did not change their speeds throughout. The distance between the two towns was 540 km. At what time did the cars pass each other?
  - (1) 1 p.m.
  - (2) 2 p.m.
  - (3) 3 p.m.
  - (4) 4 p.m.

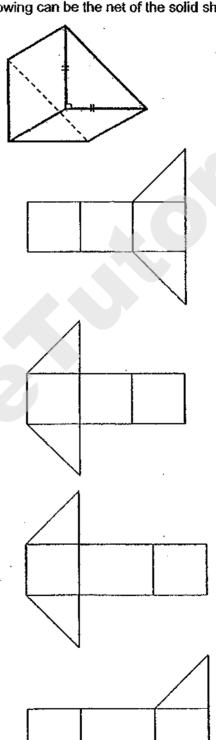
### 11. What is the mass of Box X?





- (1) 0.3 kg
- (2) 1.8 kg
- (3) 1.9 kg
- (4) 2.1 kg
- Plank A is 1.5 m longer than Plank B.
   Plank A is 60 cm longer than Plank C. The total length of the three planks is 12.6 m.
   Find the length of Plank B.
  - (1) 3.4 m
  - (2) 3.5 m
  - (3) 4.3 m
  - (4) 4.9 m
- 13. 25% of the books in a library are Malay books. 40% of the remainder are Chinese books. The rest are English books. What percentage of the books are English books?
  - (1) 30%
  - (2) 35%
  - (3) 45%
  - (4) 55%

14. Which one of the following can be the net of the solid shown below?



A-6

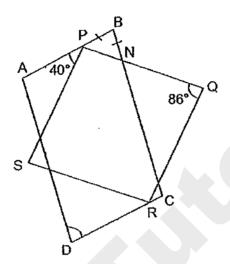
(1)

(2)

(3)

(4)

15. In the diagram below, ABCD is a parallelogram and PQRS is a rhombus.
PB = BN, ∠APS = 40° and ∠PQR = 86°. Find ∠ADC.



- (1) 72°
- (2) 88°
- (3) 92°
- (4) 94°



## Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 1 (Booklet B)

Name :	(	)	Marks:	25
Class : Primary 6	_ <			20
Date : 27 August 2019				
Total Duration for Booklets A and	B: 1 h	our		
	<b>~</b> ^			

### INSTRUCTIONS TO CANDIDATES:

- 1. Write your Index No. in the boxes at the top right hand corner.
- 2. Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write all your answers in this booklet.
- 6. The use of calculators is **NOT** allowed.

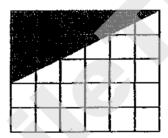
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces	provided.
For questions which require units, give your answers in the units stated.	(5 marks)

16. Write 17 hundreds in numerals.

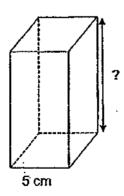
Ans:	
/ U 147.	

17. The rectangle shown below is made up of 30 identical squares.

What fraction of the rectangle is shaded? Leave your answer in the simplest form.



18. A solid cuboid has a square base of side 5 cm. It has a volume of 300 cm<sup>3</sup>. What is its height?

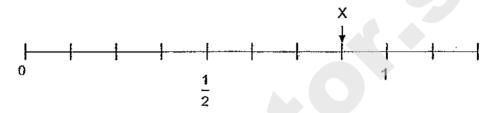


Ans: \_\_\_\_cm

	The total mass of four of the objects is 10.8 kg. What is the mass of the fifth object?	
	Ans:	k
20.	A duck has a mass of 3y kg.	
	A kitten is 3 kg heavier than the duck.	
	Find the total mass of the two animals in terms of y.	
	Ans:	k

Questions 21 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. (20 marks)

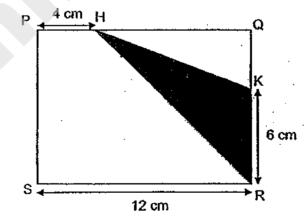
21. In the number line below, what is the value of X? Give your answer as a decimal.



Ans:

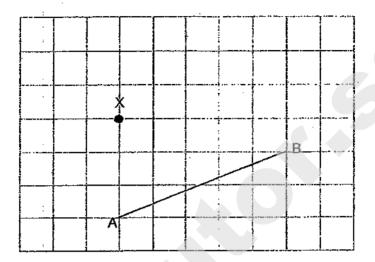
22. In the figure below, PQRS is a rectangle.H and K are points on PQ and QR respectively such that PH = 4 cm and KR = 6 cm.

Find the area of the shaded triangle HKR.



Ans: \_\_\_\_\_cm²

23. In the grid below, draw a line parallel to AB and passing through X.



24. Apples are sold at four for \$5 and pears are sold at six for \$8.
Kishan bought the same number of apples and pears.
What is the least amount of money he could have spent?



Ans: \$	-	

25. Sulaiman and Susan brought different amounts of money to school. Sulaiman spent  $\frac{1}{2}$  of his money and Susan spent  $\frac{1}{4}$  of hers at recess.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick  $(\checkmark)$  to indicate your answer.

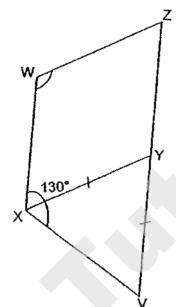
Statement	True	False	Not possible to tell
Sulaiman spent more money than Susan.			
Sulaiman had a larger fraction of his money left than Susan.			

26. Haron and Raj had an equal number of stamps at first. After Haron sold 26 stamps and Raj sold 66 stamps, the ratio of the number of stamps Haron had left to the number of stamps Raj had left was 5:1. How many stamps did Raj have at first?

Ans: \_\_\_\_\_stamps

27. In the diagram below, WXYZ is a parallelogram and ZV is a straight line.

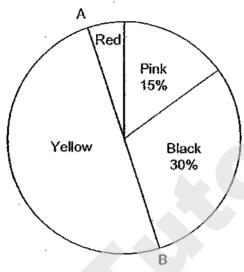
Given that XY = VY and  $\angle$ WXV = 130°, find  $\angle$ ZWX.



Ans: \_\_\_\_\_

28. Pupils in a class were asked to choose a colour for their class T-shirt.

Their responses are shown in the pie-chart below. AB is a straight line.



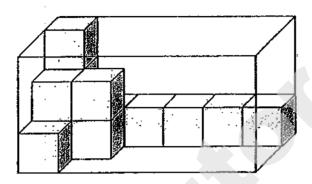
What fraction of the pupils chose red for their class T-shirt?

Ans:			

29. Mrs Tan has (2n + 16) m of ribbon.She gave away 13 m. Then she cut the remaining ribbon into 3 equal pieces.What is the length of each piece of ribbon?

Ans: m

30. There are some identical cubes in a box as shown below. How many <u>more</u> cubes are needed to fill up the box?



Ans:



# Maha Bodhi School 2019 Preliminary Examination Primary 6 Mathematics Paper 2

Name :	(	)	
Class : Primary 6	····		
Date : 27 August 2019			
Duration: 1 h 30 min			
<u> </u>			· · · · · · · · · · · · · · · · · · ·

### **INSTRUCTIONS TO CANDIDATES:**

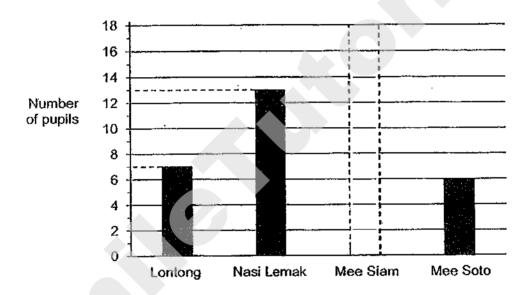
- 1. Write your Index No. in the boxes at the top right hand corner.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. The use of an approved calculator is expected, where appropriate.

Paper Booklet		Marks Obtained	Max Marks	
1	Α		20	
	В		25	
2	-		55	
Total			100	

Parent's signature:	 	 

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 in the units stated. (10 marks)

A class of 40 pupils was asked to name their favourite food. Each pupil chose one
type of food. The bar for the number of pupils who chose Mee Siam as their favourite
food has not been drawn.

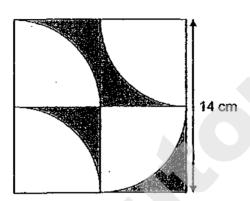


Draw the bar for the number of pupils who chose Mee Siam as their favourite food in the graph above.

2.			tentical lines. The first Figures 1 to 4, how ma		
					$\sum \rangle$
	Figure 1	Figure 2	Figure 3	Figu	ire 4
		:			
			Ar	is:	line
3.	6B collected. 6B		recycling. 6A collected ethan 6C. How many	·	
	altogether? Give your answ	er in terms of $x$ in th	e simplest form.		
	·				
			Ans	•	kg
			2	-	/4

4. The figure below shows a square of side 14 cm and 4 identical quarter circles.

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



Ans: cm<sup>2</sup>

5. At a school event, 15 pupils were standing in a straight line at equal distances from each other. The distance between the third and tenth pupil was 12.11 m. What was the distance between the first and last pupil?

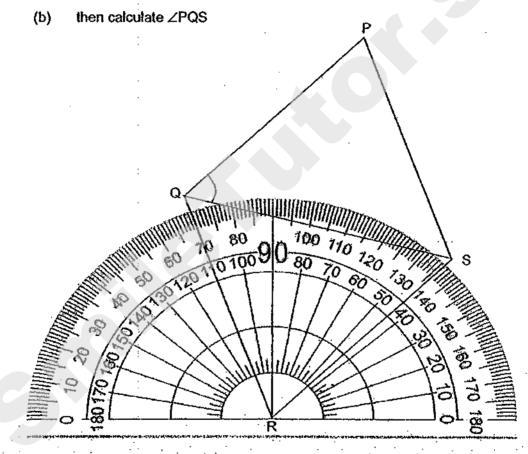
Ans: \_\_\_\_\_ m

/4

For questions 6 to 17, 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. (45 marks)

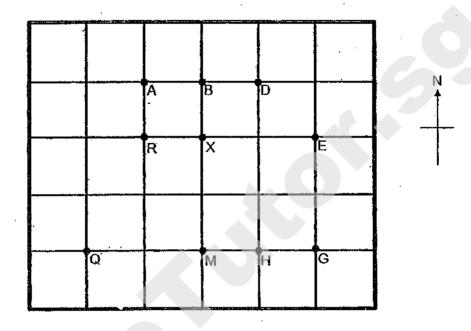
6. PQRS is a rhombus.





Ans: (a)[	1	]	į
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7. Some points are marked on the square grid shown in the diagram below.



(a) (i) Point X is west of Point	
(ii) Point X is north-east of Point	

- (b) Sally was standing at Point X and she was facing Point D.
  She then turned in an anti-clockwise direction until she was facing Point G.
  How many complete right angles did she turn?
- (c) REGQ and REGM are trapeziums with a pair of parallel sides.

  Name 1 other such trapezium with RB as one of the parallel sides.

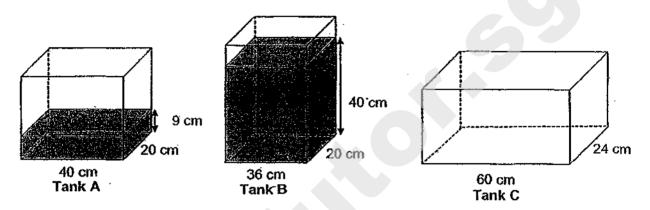
Ans: (a) (i)	····
(ii)	[1]
(b)	[1]
(c) Trapezium	[1]

/3

8. Jasmine and Kaixin started cycling at the same time along a 5.2 km track. Both of them did not change their speeds from start to finish. Jasmine cycled at 400 m/min. When she reached the end of the track, Kaixin was 780 m behind her. What was Kaixin's cycling speed in m/min?

		1
Ans:		[3]

9. In the figures below, Tank A and Tank B are partially filled with water. All the water from both Tank A and Tank B is poured into Tank C. What is the height of water in Tank C?



Ans: \_\_\_\_\_[4]

10. Two groups of pupils sold handicrafts for charity. Card holders are sold at \$15 each and photo frames are sold at \$8 each. The table below shows the items sold by Group A.

item	Number of items sold	Cost per item
Card holders	9	\$15
Photo frames	. 12	\$8

- (a) What was the total amount of money collected by Group A?
- (b) Group B sold as many handicrafts as Group A but collected an additional amount that is more than \$50.

What could possibly be the number of card holders and photo frames sold by Group B?

Ans: (a)	_[2]
(b) Card holders:	
Photo frames:	[2]

11. Three boxes, A, B and C, contain some marbles. Box C contains 272 marbles. Box A contains  $\frac{3}{4}$  of the total number of marbles in Boxes B and C. The ratio of the number of marbles in Box B to the number of marbles in Box C is 1:2. How many marbles are there altogether in Boxes A and B?

Ans:	[3]	]

12. Last year, the ratio of the number of men to the number of women who signed up for a marathon was 5 : 4. This year, the number of men increased by 30% and the number of women decreased by 50%. A total of 4675 men and women signed up for the marathon this year. What is the difference between the total number of people who signed up for the marathon in the two years?

13. Ali, Banu, Caixuan and Dave shared a bag of beads.

Ali had  $\frac{1}{2}$  as many beads as Banu.

The total number of beads Ali and Banu had was  $\frac{3}{5}$  the number of beads Caixuan had.

Dave had  $\frac{2}{5}$  the total number of beads the four children had.

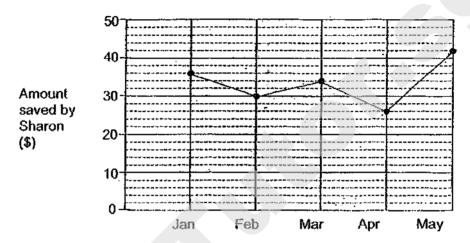
Dave had 52 beads more than Ali.

- (a) What fraction of the beads did Banu have?
- (b) How many beads did the children have altogether?

Ans:	(a)	 		[2]

4.	A un	it shape in the form of a quadrilateral is drawn	in the dot paper below.
	It has	s an area of 2x units².	
	A qu	adrilateral with 2 lines of symmetry is formed wher as shown below.	when 2 such unit shapes are joined
	Using	g the smallest number of unit shapes,	
	(a)	(i) form a square.	[1]
		(ii) find the area of the square in terms of x.	
	(b)	(i) form a quadrilateral that has only one lin	ne of symmetry. [1]
	,	(ii) name the type of quadrilateral formed.	
			Ans: (a)(ii) [ 1 ]
			(b)(ii) [ 1
		12	

15. Sharon receives \$50 from her father each month as pocket money. She spends some money and saves the rest. The line graph below shows the amount of pocket money she saved over a period of 5 months.



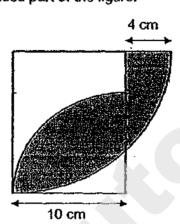
- (a) What is her total savings from January to May?
- (b) In which month did she spend the most?
- (c) Sharon wants to buy a bicycle which costs \$230. How many more months does she need to save after May so that she can buy the bicycle as soon as possible?

Ans: (a) [1]

(c) [2]

16. The figure below is formed by 2 quadrants and a rectangle overlapping one another. The radius of the smaller quadrant is 10 cm.
Find the area of the shaded part of the figure.

Take  $\pi = 3.14$ 



17. A man bought  $\frac{3}{5}$  as many cartons of mangoes as papayas.

He paid \$540 for the mangoes and papayas.

The total cost of the mangoes was twice that of the papayas.

Each carton of mangoes cost \$28 more than each carton of papayas.

- (a) How much did he pay for the mangoes?
- (b) How many cartons of papayas did he buy?

Ans	: (a)	[2]
	(b)	[3]
Remember to check your work! ~ End of Paper ~		/5

SCHOOL: MAHA BODHI PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

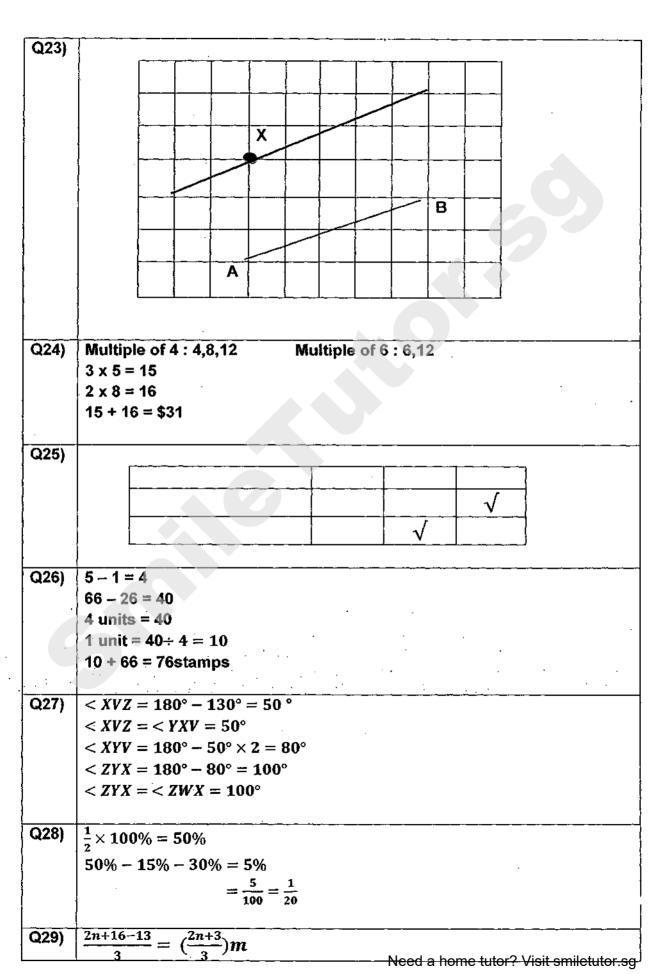
## PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	2	2	2	3	3	3	3	2

Q 11	Q12	Q13	Q14	Q15
4	1	, 3.	4	2 .

### PAPER 1 BOOKLET B

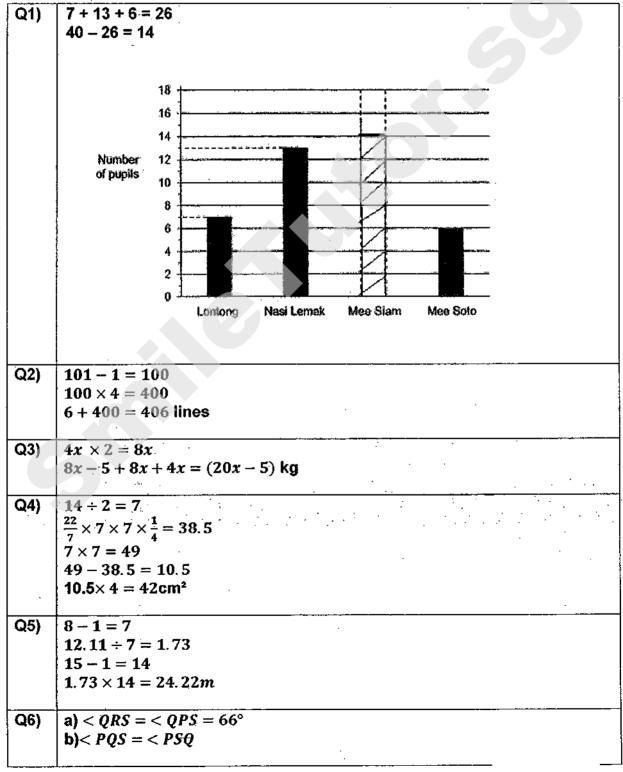
Q16)	1700
Q17)	$6 \times 3 = 18$
	$\frac{1}{2} \times 18 = 9$
	$\frac{9}{30} = \frac{3}{10}$
Q18)	5 x 5 = 25
	300 ÷ 25 = 12
Q19)	2.4 x 5 = 12
	12 - 10.8 = 1.2
Q20)	3y + 3y + 3 = (6y + 3)
Q21)	$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ $\frac{1}{8} = \frac{125}{1000} = 0.125$
	= 0.125 x 3 = 0.375
	= 0.5 + 0.375 = 0.875
Q22)	12 - 4 = 8
	$\frac{1}{2} \times 8 \times 6 = 24cm^2$
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. .

Q30)	$6 \times 3 \times 3 = 54$
	54 - 13 = 41
	. · · · · · · · · · · · · · · · · · · ·

### PAPER 2



-	$= \frac{180^{\circ} - 66^{\circ}}{2} = 57^{\circ}$
	$-\frac{2}{2}$
Q7)	a i)E
	ii)Q
	b)3
	c)Trapezium RBEM
Q8)	$5200m \div 400m/min = 13min$
	5200m - 780m = 4420m
	$4420m \div 13min = 340m/min$
Q9)	$40\times20\times9=2700$
	$36 \times 20 \times 40 = 28800$
	28800 + 7200 = 36000
	$36000 \div 60 \div 24 = 25 \text{ cm}$
Q10)	a)9 x 15 = 135
Q 10j	12 x 8 = 96
	96 + 135 = 231
	b)Multiple of 7: 7,14,21,28,35,42,49,56
	15 – 8 = 7
	56÷ 7 = 8
•	8 + 9 = 17 card holders
	12 + 9 = 21
	21 – 17 = 4 photo frames
044)	2
Q11)	8 units = 272 1 unit = 272÷ 8 = 34
	9 units = $34 \times 9 = 306$
	4 units = 34 x 4 = 136
	136 + 306 = 442
_	THE TOTAL TOTAL
Q12)	17 units = 4675
	18 units = $\frac{4675}{17} \times 18 = 4950$
	4950 – 4675 = 275

Q13) a)A : B : C	
1 : 2 $\rightarrow$ 3 $\rightarrow$ $\frac{3}{5}$ 1 : 2 : 5 $\rightarrow$ 8 $\rightarrow$ $\frac{3}{5}$	
$1 \rightarrow \frac{1}{5}$	
5	
17 : B : C : D	
1 : 2 : 5 : $\frac{8}{3} \times 2$	
3 16 16 17	
$(1:2:5:\frac{16}{3}) \times 3$	
$3: 6: 15: 16$ $\frac{6}{3+6+15+16} = \frac{6}{40}$	
3+6+15+16 = 40	
b)A . B	
b)A : B : C	
3:6 9:15	
Dave : All 4	
2 : 5 x8	
16 : 40	
13 units = 52	
40 units = $\frac{52}{13} \times 40 = 160$	
	<u>_</u>
Q14) a i)	
	•
$ii)2x \times 6 = 12x \text{ units}^2$	
b i)	
ii)Trapezium	

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Q15)	a)36 + 30 + 34 + 26 + 42 = 168 b)April
	c)230 – 168 = \$62 2 more month
Q16)	10 + 4 = 14
	14 x 10 = 140
	$3.14 \times 10 \times 10 \times \frac{1}{4} = 78.5$
	140 - 78.5 = 61.5
	$3.14 \times 14 \times 14 \times \frac{1}{4} = 153.86$
	153.86 - 61.5 = 92.36cm <sup>2</sup>
Q17)	a) $540 \div 3 = 180$
	$180 \times 2 = \$360$
	$(b)180 \div 5 = 36$
	$360 \div 3 = 120$
	120 - 36 = 84
l	$84 \div 28 = 3$
  -	$3 \times 5 = 15$

## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



## PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

## PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

## 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:	20 August 2019		

This booklet consists of **8** printed pages including this page.

20

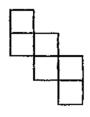
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

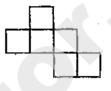
- 1. What does the digit 2 in 7.241 stand for?
  - (1) 2 ones
  - (2) 2 tenths
  - (3) 2 hundredths
  - (4) 2 thousandths
- What is the value of 91 000 ÷ 700?
  - (1) 13
  - (2) 130
  - (3) 1300
  - (4) 13 000
- 3. Which of the following is the largest in value?
  - (1) 0.035
  - (2) 0.305
  - (3) 0.530
  - (4) 0.053

## 4. The figure below shows a cube.



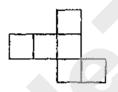
Which one of the following is not a net of the cube?

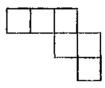




(1)



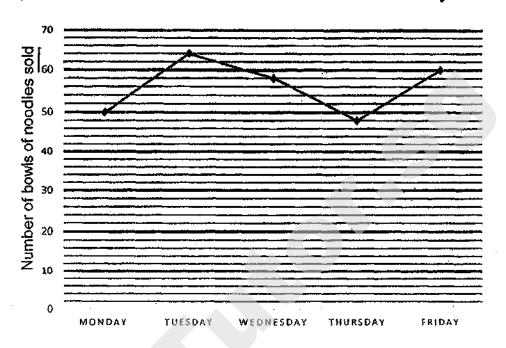




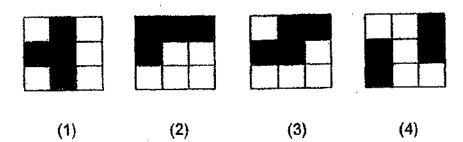
(3

(4)

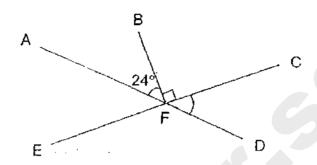
The graph shows the number of bowls of noodles sold at a stall over 5 days.



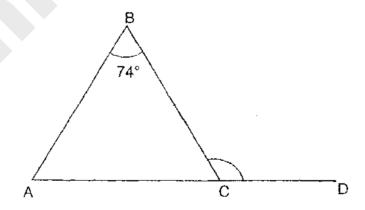
- 5. How many bowls of noodles were sold from Monday to Wednesday altogether?
  - (1) 170
  - (2) 171
  - (3) 172
  - (4) 173
- 6. Each figure below is made up of nine squares. Four squares in each figure are shaded. Which one of the following figures is symmetric?



7. AFD and CFE are straight lines. Find ∠CFD.



- (1) 24°
- (2) 66°
- (3) 74°
- (4) 76°
- ABC is an isosceles triangle with AB = BC.ACD is a straight line and ∠ABC = 74°. Find ∠BCD.



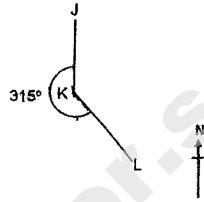
- (1) 53°
- (2) 74°
- (3) 106°
- (4) 127°

9. In the diagram, J, K and L are three points on the ground. Point J is north of point K and ∠JKL is 315°. In what direction is point L from point K?



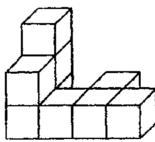


- (3) South-East
- (4) South-West



- 10. A typist can type 70 words in 2 minutes. At this rate, how many words can she type in 30 minutes?
  - (1) 140
  - (2) 210
  - (3) 1050
  - (4) 1400
- 11. A bank gives 2% interest per year. John deposits \$2000 in the bank. How much interest will he receive at the end of one year?
  - (1) \$400
  - (2) \$40
  - (3) \$0.40
  - (4) \$4

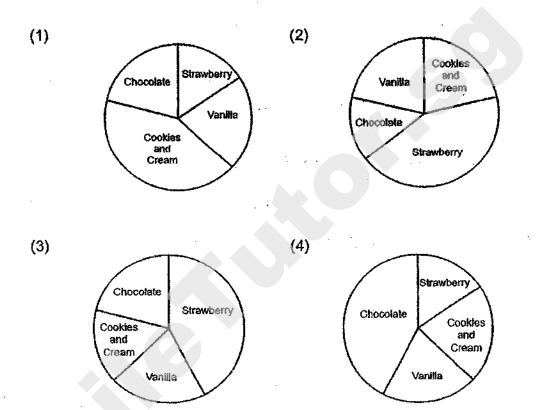
- 12. Samy and Tom shared the total cost of a meal. Samy paid \$12 more than  $\frac{2}{5}$  of the meal. Tom paid \$18. How much did the meal cost?
  - (1) \$15
  - (2) \$30
  - (3) \$50
  - (4) \$75
- 13. Selvi is x years old. Her father is 5 times as old as Selvi and 6 years older than Selvi's mother. How old is Selvi's mother?
  - (1) (5x-6) years old
  - (2) (5x 30) years old
  - (3) (5x + 6) years old
  - (4) (5x + 11) years old
- 14. The figure below shows 9 identical cubes which are glued together to form a solid.



The whole solid, including the base, is then painted red. How many cubes have three of their faces painted red?

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

15. Some pupils were surveyed on their favourite ice-cream flavours. The same number of pupils liked vanilla and chocolate. More pupils liked strawberry than cookies and cream. Which one of the following pie charts represents the distribution of pupils?



## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

## PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

## 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.		
Date:	20 August 2019	Paper 1 Booklet A	/ 20
		Paper 1 Booklet B	/ 25
		Paper 2	/ 55
Parent's	Signature:	TOTAL	/ 100

This booklet consists of 8 printed pages including this page.

	ions <b>16 to 20 carry</b> 1 mark each. Write your answers in the spaces ed. For questions which require units, give your answers in the units . (5 marks	Do not win this spa
16.	Find the value of 0.14 × 60	
.•	Ans:	
17.	Express 2.35 as a mixed number in the simplest form.	
	Ans:	
18.	Mary mixed 6 cups of water with 1 cup of syrup to make a drink.  What fraction of the drink was made up of syrup?	
	Ans:	

19.	Edmund cycled for 50 minutes at a speed of 18 km/h.	How far did he
	cycle?	

Do not write in this space

yne.		km
411~		n i i

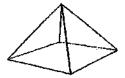
20. Find the value of  $9f - \frac{11f}{2}$  when f = 4.

Ans:	 	L
Ans:		

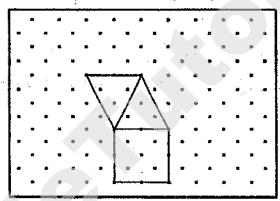
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

21. The figure below shows a pyramid.



Complete the net of the pyramid in the space provided in the box.



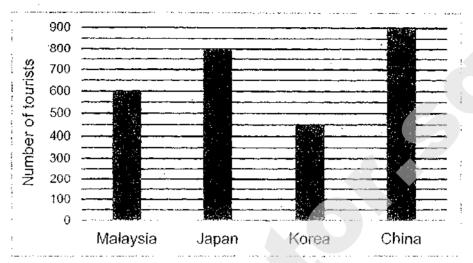
22. A total of 150 boys and girls took part in an Art competition.  $\frac{1}{3}$  of the girls and  $\frac{1}{6}$  of the boys were prize-winners. The number of boys and girls were not the same. Give your answer in the simplest form.

Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick  $(\checkmark)$  in the correct column.

Statement	True	False	Not possible to tell
(a) There were twice as many boys as girls who were prize winners.			
(b) $\frac{1}{2}$ of the participants were prize			
winners.			

23. The bar graph shows the number of tourists in four different countries on a particular day.

Do not write in this space



Which country has  $\frac{3}{4}$  as many tourists as Malaysia on that day?

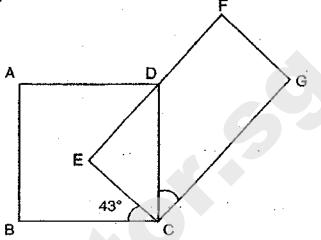
	1	
۸	11	ł
Ans:	 Ł	

24. The table shows the number of hours spent on tuition by a group of 9 children in a day. What is their average number of hours spent on tuition each day? Give your answer in the simplest form.

Tuition hour per day	0	2	3	4
Number of children	1	4	3	1

25. In the figure, ABCD is a square and EFGC is a rectangle. ∠BCE = 43°. Find ∠GCD.

Do not write in this space



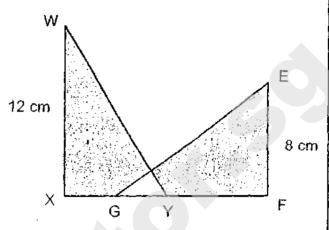
Ans: \_\_\_\_\_\_

26. The ratio of Julia's money to Mani's money is 2:3. The ratio of Mani's money to Kee Lin's money is 4:5. Kee Lin has \$30. Find the total sum of money the three girls have.

Ans: \$\_\_\_\_\_

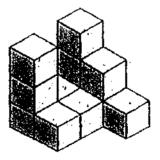
27. In the figure, WXY and EFG are identical triangles. The total area of the shaded parts is 80 cm<sup>2</sup>. Find the area of the unshaded part.

Do not write in this space



Ans: \_\_\_\_\_ cm<sup>2</sup>

28. The solid below is made up of 1-cm cubes. How many more cubes are needed to make a cube of sides 3 cm?



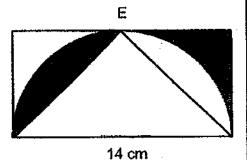
Ans: \_\_\_\_\_

<b>29</b> .	Ali and Beng Huat had the same amount of money at first. After Ali
	spent \$34, Beng Huat had thrice as much money as Ali. How much
	money did they have in total at first?

Do not write in this space

Ans: \$\_\_\_\_\_

30. The diagram is made up of a rectangle, triangle and a semicircle. E is the midpoint of the length of the rectangle. The length of the rectangle is 14 cm. Find the area of the shaded region. Take  $\pi = \frac{22}{7}$ .



Ans:\_\_\_\_\_cm<sup>2</sup>

## METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



# PRELIMINARY EXAMINATION 2019 PRIMARY 6 MATHEMATICS

#### PAPER 2

Duration: 1h 30 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:	20 August 2019			55
Parent's S	ignature:			

This booklet consists of 14 printed pages including this page.

your	stions 1 to 5 carry 2 marks each. Show your working clearly and write answers in the spaces provided. For questions which require units, your answers in the units stated. (10 marks)	Do not write in this space
1	For every \$5 that Suzy saved, her father will contribute another \$0.50 to her savings. Suzy's father contributed a total of \$11. What was Suzy's total savings in the end?	
	Ans: \$	
2	What is the greatest number of circles, of radius 6 cm, that can be cut from a vanguard sheet measuring 100 cm by 50 cm?	
		-
	Ans:	

3 A pencil case costs \$4 more than a sharpener. The total cost of 3 such pencil cases is \$p.

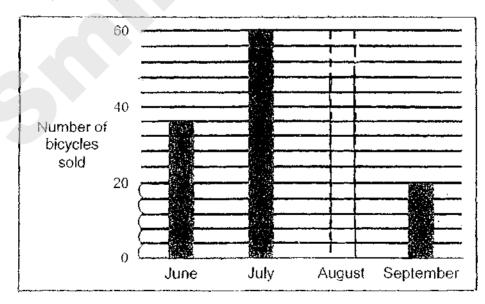
Do not write in this space

- (a) Express the cost of 15 such pencil cases in terms of p.
- (b) Express the cost of a sharpener in terms of p.

Ans:	(a) \$	[1]		-
	(b) \$	[1]	Ì	

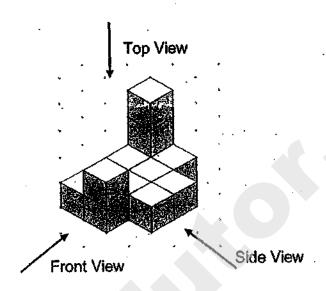
The bar graph shows the number of bicycles sold by a shop from June to September. The shop sold a total of 164 bicycles.

The number of bicycles sold in August is not shown in the graph. Draw the bar representing the number of bicycles sold in August.



The solid below is made up of thirteen 1-cm cubes.Draw the front view and the side view of the solid on the grids below.

Do not write in this space

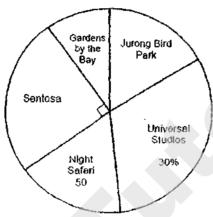


Front View Side View

For questions 6 to 17, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

Do not write in this space

6 A survey on the places of interest that the pupils in Primary 2 liked was carried out. The results of the survey are shown in the pie chart below.



- $\frac{1}{6}$  of the pupils surveyed liked the Jurong Bird Park. The number of pupils who liked the Night Safari was the same as the number of pupils who liked the Jurong Bird Park. 30% of the pupils liked Universal Studios.
- (a) How many pupils took part in the survey?
- (b) How many pupils liked Gardens by the Bay?

Ans: (a) \_\_\_\_\_[1]

(b)\_\_\_\_[2]

	Betty and Cathy had 294 stickers altogether. Betty gave away $\frac{3}{8}$ of her stickers and Cathy gave away $\frac{2}{5}$ of her stickers. Both had same number	Do not write in this space
	of stickers left. How many stickers did Cathy give away?	
.÷		
	Ans:[4]	
	At 08 00, a lorry left Town A for Town B moving at a speed of 60 km/h.  At 09 00, a car left Town A for Town B moving at a speed of 75 km/h.	1
	Both vehicles did not change their speeds throughout. What was the distance travelled by the car when it caught up with the lorry?	
	Both vehicles did not change their speeds throughout. What was the	
	Both vehicles did not change their speeds throughout. What was the	
	Both vehicles did not change their speeds throughout. What was the	
	Both vehicles did not change their speeds throughout. What was the	
	Both vehicles did not change their speeds throughout. What was the	
	Both vehicles did not change their speeds throughout. What was the	

9	A box of chicken wings is 15 kg heavier than a packet of nuggets.  The total mass of 5 packets of nuggets and 6 boxes of chicken wings is 189 kg. What is the mass of a box of chicken wings?	Do not write in this space
		·
	Ans:[3]	
10	Shana has two rectangular boxes of difference sizes. The length, breadth and height of the larger box is twice those of the smaller box. She packed 46 identical cubes exactly into the smaller box. How many such cubes can be packed exactly into the larger box?	
	Ans:[3]	

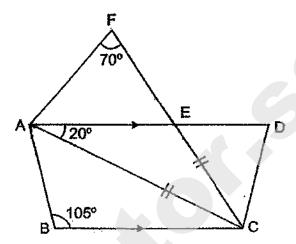
In the figure, ABCD is a trapezium and ACF is an isosceles triangle.

AED and CEF are straight lines. ∠AFC = 70°, ∠EAC = 20° and

∠ABC = 105°.

Do not write in this space

- (a) Find ∠BAC.
- (b) Find ∠AEC.



Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_[2]

A shop sells shorts in five different sizes. The table shows the number of shorts sold in January.

Do not write in this space

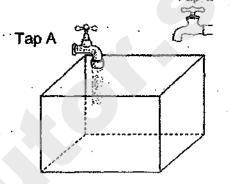
Size of shorts	Number of shorts
XS	84
S	152
М	?
L.	81
XL	65

- (a) 14% of the shorts sold were in size XS. How many of the shorts sold were in size M?
- (b) In February, there was a 20% decrease in the number of shorts sold in size XL. How many fewer XL shorts were sold in February?

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

Tap A and Tap B can fill a tank at a rate of 3  $\ell$  per minute and 5  $\ell$  per minute respectively. At first, only Tap A was turned on. When the tank was  $\frac{1}{4}$  - filled with water, Tap B was then turned on. Six minutes later, the tank was  $\frac{7}{8}$  - filled with water. How much water was there in the tank just before Tap B was turned on?

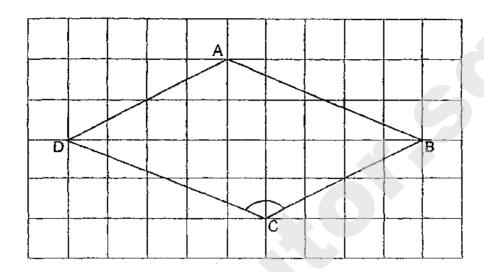
Do not write in this spac



Ans: \_\_\_\_\_[4]

14 In the figure below, ABCD is a parallelogram.

Do not write in this space



- (a) Draw a line AE perpendicular to DC.
- (b) Measure ∠BCD.
- (c) Name the shape formed by figure ABCE.
- (d) Name a pair of parallel lines.

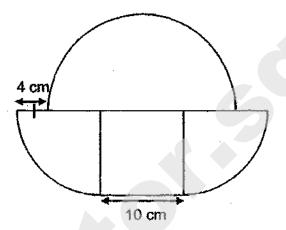
Ans: (b)	····	[1	]
----------	------	----	---

[1]

15 The figure below is made up of a square, 2 identical quarter circles and a semicircle. The sides of the square measure 10 cm. Take  $\pi = 3.14$ .

Do not write in this space

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



Ans: (a) \_\_\_\_\_[2]

(b) \_\_\_\_\_[2]

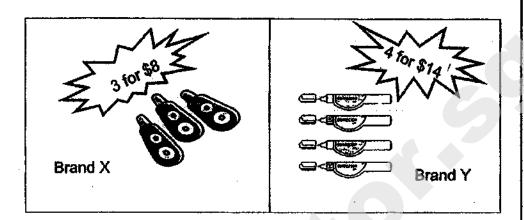
In a singing competition, the ratio of male participants to female participants was 1:5 at first. After the first round of competition, 25% of the male participants and 60% of the female participants did not make it to the second round. In the second round, there were 15 more female participants than male participants.
(a) What was the ratio of the number of female participants to the number of male participants in the second round?
(b) How many more female than male participants were there at first?

Do not write in this space

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

17 Mrs Lim bought an equal number of Brand X and Brand Y correction tapes. She spent \$180 more on Brand Y correction tapes.

Do not write in this space



- (a) How many correction tapes did she buy altogether?
- (b) How much did she spend on the Brand X correction tapes?

Ans:	(a)	 [3]	Ì
	(b)	[2	j

SCHOOL:

MGS PRIMARY SCHOOL

LEVEL

**PRIMARY 6** 

SUBJECT:

MATH

TERM

**2019 PRELIM** 

# PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	4	3	1	2	4	3	3

Q 11	Q12	Q13	Q14	Q15
2	3	1	3	3

# PAPER 1 BOOKLET B

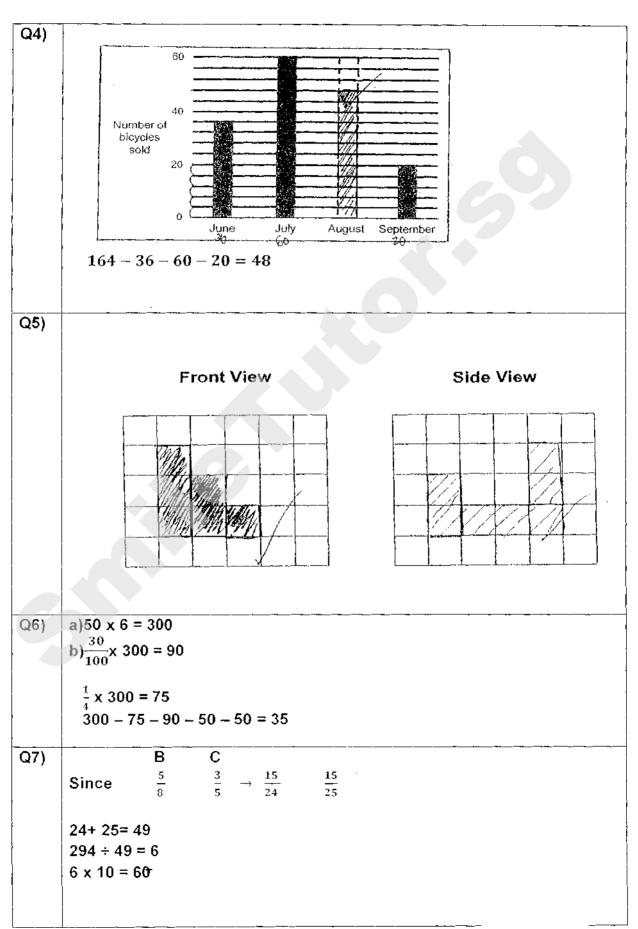
Q16)	0.14 x10=1.4
	$1.4 \times 6 = 8.4$
Q17)	$2.35 = 2\frac{35}{100} = 2\frac{7}{20}$
Q18)	<u>1</u> 7
Q19)	$50 \min_{0} \rightarrow \frac{50}{60} = \frac{5}{6}$ $18 \times \frac{5}{6} = 15$
Q20)	$9 \times 4 = 36$ $36 - \frac{44}{2} = 36 - 22 = 14$
Q21)	

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Q22)	a)Not possible to tell	
	b)False	
Q23)	Korea	
Q24)	$2\frac{1}{3}h$	
Q25)	90° – 43° = 47°	
	90° - 47° = 43°	
Q26)	30 ÷ 15 = 2	
	2 x 35 = \$70	
Q27)	96 - 80 = 16	
	16 ÷ 2 = 8 cm <sup>2</sup>	
Q28)	3 x 3 x 3 = 27	
	27 – 12 = 15	
Q29)	$34 \div 2 \times 6 = $102$	
Q30)	$14 \times 7 = 98$	
	$14\times7\times\frac{1}{2}=49$	
	98 - 49 = 49	
	$49 \div 2 = 24.5 cm^2$	

## PAPER 2

Q1) 
$$\$11 \div \$0.50 = 22$$
  
 $22 \times \$5 = \$110$   
 $\$110 + \$11 = \$121$   
Q2)  $100 \div 12 = 8$   
 $50 \div 12 = 4$   
 $8 \times 4 = 32$   
Q3)  $a)15 \div 3 = 5$   
 $5 \times \$p = \$(5p)$   
 $b)\frac{p}{3} - 4 = (\frac{p}{3} - 4)$ 



Q8)	75 – 60 = 15
40,	60 ÷ 15 = 4
	75 x 4 = 300km
:	15 X 4 = 500Kiii
Q9)	15kg x 6 = 90kg
Q3)	189kg – 90kg = 99kg
	99kg ÷ (5+6) = 9kg
	9kg + 15kg = 24kg
	ang . Tang – 24ng
Q10)	6 x 6 x 6 = 216
۵.0,	12 x 12 x 12 = 1728
	216→ 16
	$1728 \to \frac{1728}{216} \times 16 = 128$
Q11)	a)180° - 20° - 105° = 55°
	b)70° - 20° = 50°
	$180^{\circ} - 50^{\circ} - 70^{\circ} = 60^{\circ}$
	180° – 60° = 120°
Q12)	a) $84 \div 14 \times 100 = 600$
	600 - 84 - 152 - 81 - 65 = 218
	b)65 ÷ 100 x 80 = 52
	65 - 52 = 13
Q13)	$5L \times 6 = 30L$
Q 13)	$3L \times 6 = 18L \int 6min$
	$\frac{7}{7} = \frac{2}{5} = \frac{5}{7}$
	8 8 8
	18L+ 30L = 48L
	$48L \div 5 \times 2 = 19.2L$
Q14)	a) A
	D B
	E
Q14)	b)131°
	c)Trapezium d)DC//AB

```
Q15) a)Arc of quadrant = 2\pi r \times \frac{1}{4}
           = 2 \times 3.14 \times 10 \times \frac{1}{4} = 15.7
           Arc of semicircle = 2 \pi r \times \frac{1}{2}
           = 2 \times 3.14 \times 11 \times \frac{1}{2} = 34.54
           34.54 + 4 + 15.7 + 10 + 15.7 + 4 = 83.94cm
            Quadrant
         b)\pi r^2 = 3.14 \times 10 \times 10 \times \frac{1}{2} = 157
             square
            10 \times 10 = 100
             Semicircle
            \pi r^2 = 3.14 \times 11 \times 11 \times \frac{1}{2} = 189.97
             189.97 + 100 + 157 = 446.97 \text{ cm}^2
Q16)
         a)40u - 15u = 25u
                                                            F : M
            15 \div 25 \times 40 = 24
                                                            24:
                                                                    9
            15 \div 25 \times 15 = 9
                                                             8:3
                                                                        (ans)
         b)100u - 20u = 80u
            15 \div 25 \times 80 = 48
Q17)
        a)$42 - $32 = $10
           $180 \div $10 = 18
            12 \times 18 = 216
            12 \times 18 = 216
            216 \times 2 = 432
         b)216 \div 12 = 18
            18 \times 32 = $576
```



#### NAN HUA PRIMARY SCHOOL PRELIMINRY EXAMINATION – 2019 PRIMARY 6

# PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 hour

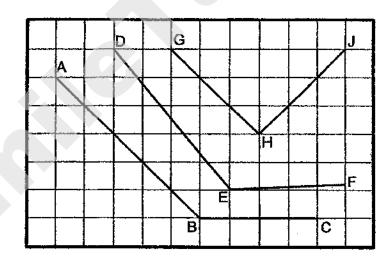
#### **INSTRUCTIONS TO CANDIDATES**

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

Name :	(	)
Class : 6		
Date : 22 August 2019	Parent's Signature:	

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

- . 1. Express 759.285 to the nearest hundredth.
  - (1) 759.28
  - (2) 759.29
  - (3) 760
  - (4) 800
- 2. Which two lines are parallel to each other?



- (1) AB and DE
- (2) AB and GH
- (3) GH and HJ
- (4) BC and EF

#### What is the mass of the durian shown?



- (1) 3 kg 40 g
- (2) 3 kg 60 g
- (3) 3.4 kg
- (4) 4.6 kg



# Which one of the following is the most likely mass of your Student's Diary 2019?

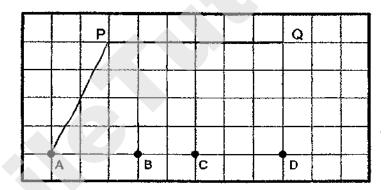
- (1) 20 g
- (2) 2 g
- (3) 200 g
- (4) 2000 g



5. 
$$600 + 6 + \frac{6}{100} + \frac{6}{1000} =$$

- (1) 66.666
- (2) 606.066
- (3) 606.66
- (4) 6666

- 6. Simplify 12a + 8 a 3 + 2a.
  - (1) 9a + 5
  - (2) 13a + 5
  - (3) 13a + 11
  - (4) 15a + 11
- 7. A, B, C, D are points on a square grid.
  Which point when joined to P and Q forms an obtuse-angled triangle?



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

8. Arrange the following distances from the shortest to the longest.

4.3 km 4 3 km 430 m

•	<u>Shortest</u>				Longest
<b>(1)</b>	4.3 km	•	$4\frac{3}{4}$ km	٠.	430 m
(2)	430 m	,	$4\frac{3}{4}$ km	,	4.3 km
(3)	$4\frac{3}{4}$ km		430 m	,	4.3 km
(4)	430 m	,	4.3 km		$4\frac{3}{4}$ km

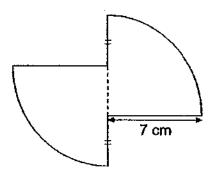
- 9. The ratio of the number of boys to the number of girls to the number of adults at a fun fair is 6:3:2. What is the ratio of the number of adults to the number of children?
  - (1) 2:9
  - (2) 2:11
  - (3) 9:2
  - (4) 11:2

### 10. 20% of a number is 80. What is the number?

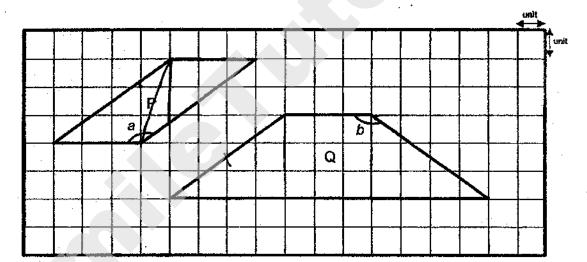
- (1) 16
- (2) 40
- (3) 160
- (4) 400
- 11. Which one of the following fractions is nearest to  $\frac{1}{2}$ ?
  - (1)  $\frac{2}{3}$
  - (2)  $\frac{3}{4}$
  - (3)  $\frac{2}{5}$
  - (4)  $\frac{3}{7}$
- 12. The figure below is formed by joining two quarter circles of radius 7 cm. Find the perimeter of the figure. ( Take  $\pi = \frac{22}{7}$  )



- (2) 36 cm
- (3) 43 cm
- (4) 77 cm



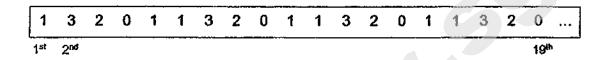
- 13. John had some sweets. After he gave 8 sweets to Pei Ling, they had the same number of sweets. How many sweets did John have at first. Let *m* be the number of sweets Pei Ling had a first.
  - (1) m
  - (2) m+4
  - (3) m + 8
  - (4) m + 16
- 14. Two figures, P and Q, are shown in the square grid below.



Which of the statement(s) is/are true?

- A.  $\angle a = \angle b$
- B. The perimeter of Figure Q is 8 units more than the perimeter of Figure P.
- C. The area of Figure Q is 4 times of the area of Figure P.
- (1) A only
- (2) Bonly
- (3) A and B
- (4) A and C

A repeated pattern is formed using the numbers 0, 1, 2 and 3.
 The first 19 numbers are shown below.



What is the sum of the first 403 numbers?

- (1) 560
- (2) 563
- (3) 564
- (4) 566



#### NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION - 2019 PRIMARY 6

#### MATHEMATICS PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 hour

## **INSTRUCTIONS 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. Write your answers in this booklet.
- 6. The use of calculators is **NOT** allowed.

#### Marks Obtained

THE COURT		
Paper 1	Booklet A	/ 45
	Booklet B	
Paper 2		/ 55
Total		/ 100

Name :		
Class : 6		
Date : 22 August 2019	Parent's Signature:	

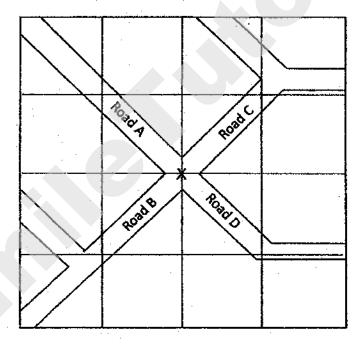
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.  (5 marks)				
Write one million, two hundred and four thousand and five hundred in numerals.				
Ans:	and the second s			
Find the value of 10 ÷ 2000. Give your answer in decimal.  Ans:				
There are 6 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.				
	Write one million, two hundred and four thousand and five hundred in numerals.  Ans:  Ans:  Ans:  There are 6 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.			

19. Express 12.5% as a fraction in its simplest form.

Do not write in this space

Ans:		

20. The figure below shows a road map.

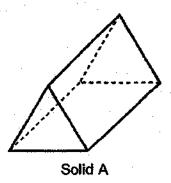


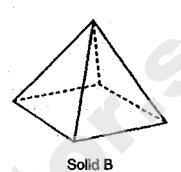
Jerry approached the cross junction 'X' in a car from one of the roads. He turned his car 90° clockwise onto Road B. Which road was he coming from before he turned onto Road B?

provi	stions 21 to 30 carry 2 marks each. Show your working clearly in the space ded for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.  (20 marks)	Do not write in this space
21.	The Tan family drove from Singapore to Malaysia. They left Singapore at 10.45 a.m. and travelled for 2 h 25 min. What time did they arrive in Malaysia? Give your answer in 24 h clock.	
v		
	Ans:	
22.	Find the value of 3 ÷ 7. Give your answer correct to 2 decimal places.	
	Ans:	

# 23. a) Which of the following solids is a prism?

Do not write in this space

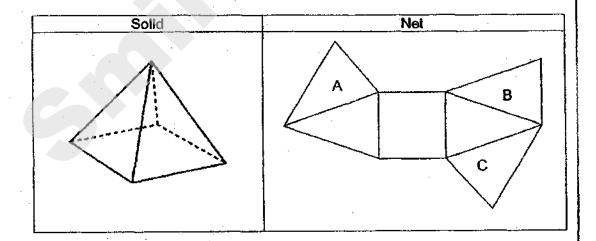




Ans: \_\_\_\_\_

a) The net drawn for the solid below is incorrect.

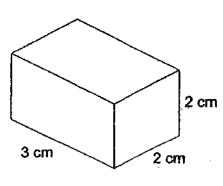
Which triangle (A,B or C) does not fit the net of the solid?

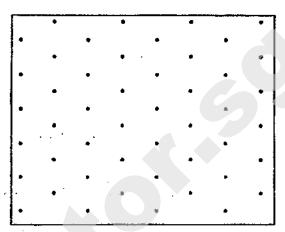


Ans:		
	 	 -

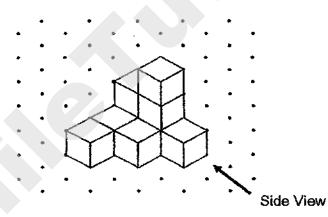
24. a) Complete the cuboid on the isometric grid.

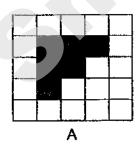
Do not write in this space

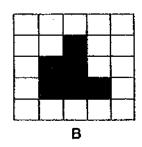


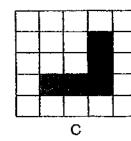


b) Which of the following figures represents the side view of the solid?









Ans: \_\_\_\_\_

25.	Jenny had some milk. She drank $\frac{1}{5}$ litres of milk and used $\frac{1}{2}$ litres of	Do not write in this space
·.	milk to bake cakes. After that, she had 2 litres of milk left. How many litres of milk did she have at first?	
•		
•		
		1
	Ans: <i>l</i>	
26.	Car A travelled 45 km in $\frac{1}{2}$ h. Car B travelled 150 km in 2 h.	
	Which car travelled at a slower average speed?	

27. The average number of stickers Henry collected in five days is 8.

The table below shows the number of stickers Henry collected in five days.

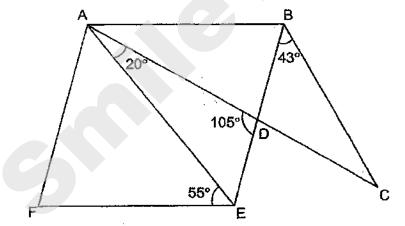
How many stickers did he collect on Wednesday?

/S.	Do not write In this space
/S.	in this space

Day Mon Tues Wed Thurs Fri
Number of 5 0 ? 12 10
Stickers

Ans:				

28. In the figure below, ABEF is a rhombus and ABC is a triangle. ∠CAE = 20°. ∠CBE = 43°. ∠AEF = 55°. ∠ADE = 105°.

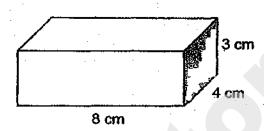


Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\checkmark$ ) in the correct column.

Statement	True	False	Not possible to tell
ABE is an isosceles triangle.			
ABC is an isosceles triangle.			

29. Joshua had a rectangular block of wood 8 cm by 4 cm by 3 cm. He painted all the faces of the block. He cut the block into 1-cm cubes. How many of the cubes did not have any of its faces painted?

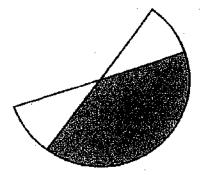
Do not write in this space



Ans: \_\_\_\_\_

30. The figure is formed by overlapping 2 semicircles of radius 7 cm. The overlapped area is  $60~\rm cm^2$ .

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



Ans: \_\_\_\_\_ cm²

**END OF PAPER** 



#### NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION - 2019 PRIMARY 6

#### MATHEMATICS

rapar z
0 minutes
(10 marks)
uestions (45 marks)
3
ex number in the space provided.  e until you are told to do so. refully I show your workings clearly. calculator.
/ 55
arent's Signature :

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

(10 marks)

1.	The pie chart below shows the different ways 120 students go to school. How many students go to school by car?	Do not write in this space
	Bus 40%	
	Walk	
	MRT 1 10 Ans:	
2.	Janice mixed 750 ml of orange squash with 2250 ml of water to make orange juice. She poured the orange juice into some identical bottles. The capacity of each bottle is 800 ml. What was the least number of bottles she used to contain all the orange juice?	
		·
	Ans:	

3.	What is the sum of	rs old now. Her so of their ages 2 year wer in terms of <i>m</i> .	on is <i>m</i> years younger thats rs ago?	an her.	Do not write in this space
			•		
				•	
	*.	•			
	. •				
					<u></u>
			Ans:	_years old	
	community centre				
		Time	Charge		
	9 a	Time .m. – 6 p.m.	\$3.50 per hour		
	9 a	Time			
	9 a 6 p.	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		
	9 a 6 p. Benny booked a b	Time .m. – 6 p.m. m. – 10 p.m.	\$3.50 per hour \$7.20 per hour		

5.	Mrs Tan pinned a piece of cloth onto the class notice board using some pins. The figure below shows part of the notice board. Pins are placed at an equal distance on the perimeter of the notice board. The distance between every 2 pins is 10 cm. Pins are placed at the 4 corners of the notice board. How many pins are used?	Do not write in this space
	10 cm	
	320 cm	
: ' : '		
	Ans:	

For questions from 6 to 17, 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. (45 marks)

6.	The usual price of a dining table was \$950. During the Great Singapore Sale, the price of the dining table was reduced by 20%. Jane bought the dining table during the sale. She also paid an additional 7% GST on the discounted price. How much did Jane pay for the dining table in total?	Do not write in this space
	Ans: [3]	

In the figure below, ABFG is a square, CDEF is a rectangle and DEG is a triangle. AG = 5 cm, CD = 4 cm and DE = 7 cm.

What is the area of the shaded part? 7. Do not write in this space 4 cm 7 cm 5 cm \_\_\_\_\_[3] Ans:

8.	Tom and Jerry started jogging from the same start point of a 4 km track round a park. They started at the same time but in opposite directions. Both of them dld not change their speed throughout. Jerry Jogged at a slower speed than Tom. After 20 min, Tom jogged 3200 m. Jerry was 2000 m away from him. What was Jerry's jogging speed in m/min?	Do not write in this space
	Tom Jerry Start point  4 km track	
	Park	
	Ans: [3]	

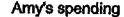
	· · · · · · · · · · · · · · · · · · ·
9. Jie Yi had a square piece of paper. She made 2 folds from the corner to the diagonal line as shown below.	Do not write in this space
a) Find ∠x. b) Find ∠y.	
	ibi n
X X	
45°	
Ans: a) [1]	
b) [2]	

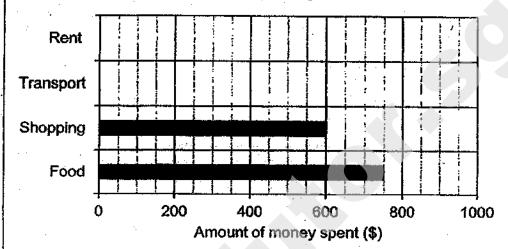
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10.	10. Janice bought some cakes and muffins at the prices shown below.			
			this space	
	Cakes	Muffins		
	2 for \$9	3 for \$8		
	She bought an equal number of cakes and She spent \$55 <b>more</b> on cakes than muffins did she buy altogether?	muffins. . How many cakes and muffins		
1				
•				
<u> </u>				
Ì				
		•		
ŀ				
ł				
[		Ans: [4]		
			.1	

11. Amy spends \$2400 each month. Her spending each month is represented by the bar graph below. The bars for the amount spent on rent and transport have not been drawn.

Do not write in this space





- a) What percentage of her spending did Amy spend on shopping?
- b) What fraction of her spending did she spend on food? Express your answer in the simplest form.
- c) Amy spends more money on rent than on shopping. She spends the most amount of money on food.

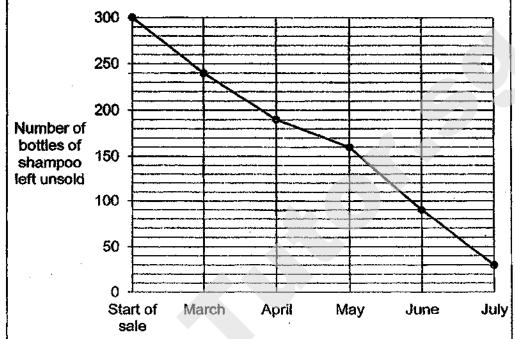
Write down one possible set of values for the amount of money she spent on rent and transport. The values can only be multiples of 10.

Ans: a)		ľ	1	]
---------	--	---	---	---

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12. Mr Lee is a salesman. He had 300 bottles of shampoo. The line graph shows the number of bottles of shampoo left unsold at the end of each month.

Do not write in this space

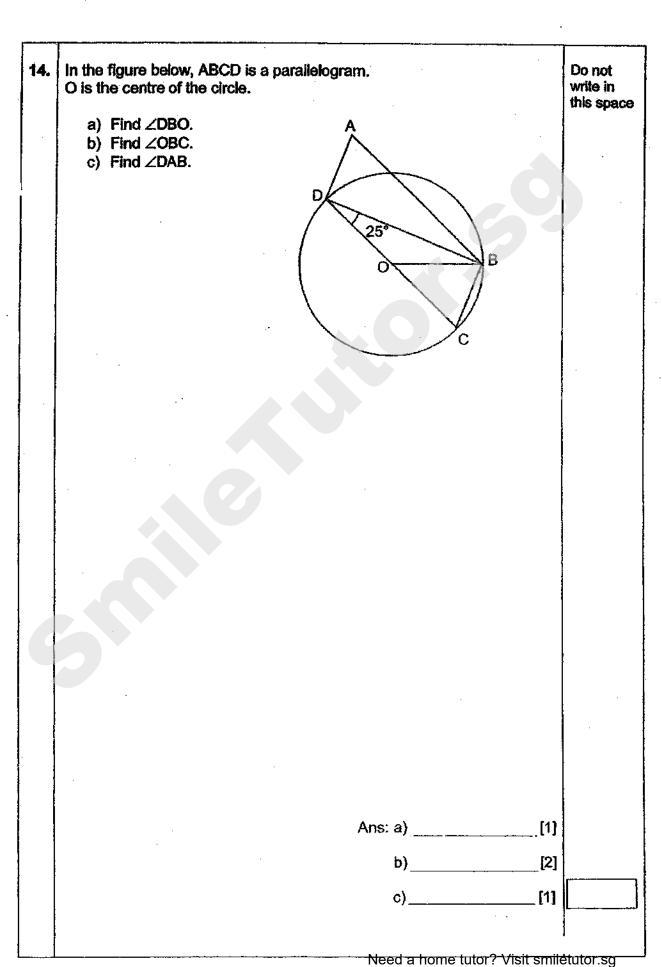


- a) In which month was the most number of bottles of shampoo sold?
- b) What was the percentage decrease in the number of bottles sold in May compared to April?

Ans: a) \_\_\_\_\_[2]

b) \_\_\_\_\_[2]

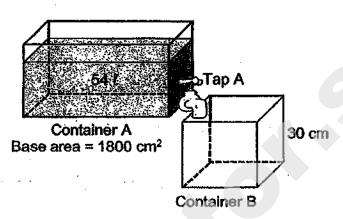
col	a concert, \$11 500 was collected from the sale of tickets. The lected from the sale of child tickets is \$3500 more that the sale kets.		Do not write in this space
. ]	<ul><li>a) How much was collected from the sale of adult tickets?</li><li>b) The ratio of the number of adults to the number of children</li></ul>	n is 1 : 3. a child	
-			
			-  -  -
	Ans: a)	[1]	
	лю. α)	1''	
		[3]	li



15.	The participants of a competition are divided equally into 2 groups, Group A and Group B. In Group A, there are 30 more boys than girls. In Group B, there are 18 more girls than boys. $\frac{3}{7}$ of all the participants are girls. How many participants are boys?	Do not write in this space
	Ans: [3]	

16. The figure below shows 2 containers, A and B. Container A is rectangular and contains 54 t of water. Container B is cubical and empty at first.

Do not write in this space



a) Find the height of water in Container A.

b) Tap A is turned on. Tap A allows water to flow from container A to B at a rate of 3 \( \ell \) per min. How long will it take for height of the water level in both containers to be the same?

Ans: a) \_\_\_\_\_[1]

b) \_\_\_\_\_[4]

In the figures below, the shaded and unshaded dots follow a pattern.

Do not write in this space





Figure 3





Figure 1 Figure 2

Figure 5

(a) Study the above figures and complete the table for Figure 6.

Figure number	Number of unshaded dots	Number of shaded dots	Total number of dots
1	1	0	1
2	1	2	3
3	4	2	6
4	4	6	10
5	9	6	15
6	(i)	(ii)	(iii)

(b) What is the total number of dots in Figure 50?

Ans: a) (i) \_\_\_\_\_

(iii)\_\_\_\_\_[3]

- End of Paper 2 -

SCHOOL: NAN HUA PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM: 2019 PRELIM

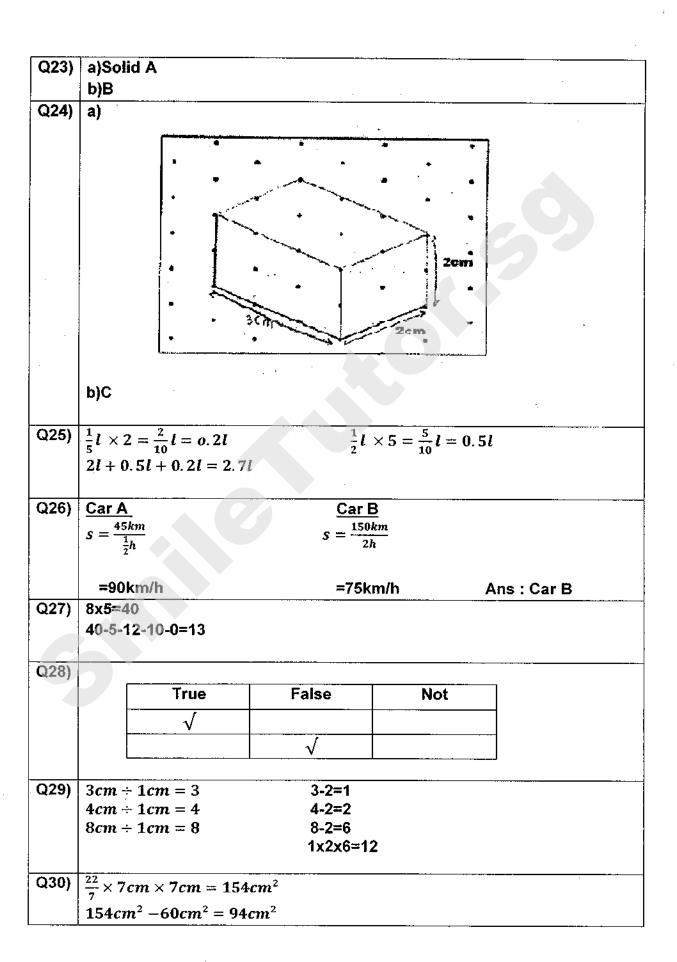
#### PAPER 1 BOOKLET A

	Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
ļ	2	2	3	3	2	2	1	4	1	4

Q 11	Q12	Q13	Q14	Q15
4	3	4	3	4

#### PAPER 1 BOOKLET B

Q16)	1204500
Q17)	$10 \div 2000 = 0.005$
Q18)	
	A
	1
	В
Q19)	$12.5\% = \frac{12.5}{100} \times 2$
 	$=\frac{25}{200} \div 5$
	$=\frac{5}{40} \div 5 = \frac{1}{8}$
Q20)	Road A
Q21)	13:10pm
Q22)	0.43 Need a home tutor? Visit smiletutor.sg



#### NAN HUA PRIMARY SCHOOL Preliminary Examination - 2019 PRIMARY 6 MATHEMATICS

#### Paper 2

3) 
$$35 + 35 - m - 2 - 2 = 66 - m$$

7)  

$$(5 \times 5) + (4 \times 7) = 53$$
  
 $\frac{1}{2} \times 7 \times 9 = 31.5$   
 $53 - 31.5 = 21.5 \text{ cm}^2$ 

$$\frac{1}{2} \times 7 \times 9 = 31.5$$

$$5 \times 2 = 10$$

$$31.5 - 10 = 21.5$$

9) a) 
$$180 - 45 - 90 = 45^{\circ}$$
  
b)  $45 \div 2 = 22.5$   
 $180 - 22.5 - 90 = 67.5^{\circ}$ 

$$30 \div 2 = 15$$
  
 $30 \div 3 = 10$   
 $15 \times 9 = 135$   
 $10 \times 8 = 80$   
 $135 - 80 = 55$   
 $30 \div 30 = 60$ 

- 11) a)  $\frac{600}{2400} \times 100\% = 25\%$ 
  - b)  $\frac{5}{16}$
  - c) 2400 600 750 = 1050

    Sum of amount spent on rent and transport is 1050. The amount of rent must be between 600 and 750. Both amount must be multiple of 10.

    For example: 610 and 440- Refer to back for all possible combination
- 12) a) 160 90 = 70, June b) 50 - 30 = 20 $\frac{20}{50} \times 100\% = 40\%$
- 13) a) \$11500 \$3500 = \$8000 $$8000 \div 2 = $4000$

### 15) Method 1- Using fraction to find $\frac{1}{2}$ .

#### Group A

В	u	30

#### **Group B**

$$\frac{1}{7} \rightarrow 30 - 18 = 12$$

$$\frac{4}{7} \rightarrow 12 \times 4 = 48$$

#### Method 2- Using units and parts/ cross multiplication

#### Group A

В	G	Ţ
u + 30	u	2u + 30

#### Group B

В	G	T
р	p + 18	2p + 18
u + 6	u+ 24	u+30

$$2u + 30 = 2p + 18$$

$$u + 6 = p$$

$$\frac{u+6}{2u+36} = \frac{4}{3}$$

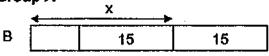
$$6 u + 108 = 8 u + 96$$

$$2u = 12$$

$$2 u + 36 = 48$$

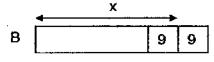
#### Method 3 -- Using total for each group = 2x and cross multiplication







#### Group B





#### Let each group consists of 2x participants

	Α	В	Total
Boy	x + 15	x-9	2x + 6
Girl	x – 25	x+ 9	2x - 6
Total	2 x	2x	

#### Solving for x:

$$\frac{2x-6}{4x}=\frac{3}{7}$$

$$14x - 42 = 12 x$$

$$2x = 42$$

$$2x + 6 = 48$$

16) a) 54000 ÷ 1800= 30 cm

b) 30 x 30 = 900 1800 + 900 = 2700 54000 ÷ 2700 = 20 20 x 30 x 30 = 18 000 18 000 ÷ 3000 = 6 min	$3000 \div 900 = 3\frac{1}{3}$ $3000 \div 1800 = 1\frac{2}{3}$ $3\frac{1}{3} \times 6 = 20$ $1\frac{2}{3} \times 6 = 10$ 6 min
30 x 30 = 900	
1800 ÷ 900 = 2	
54 ÷ 3 = 18	
18 ÷ 3 = 6	

17) a) 9, 12, 21 b) 25 x 51 = 1275 or  $\frac{1}{2}$  n<sup>2</sup> +  $\frac{1}{2}$  n

11b)

610	440
620	430
630	420
640	410
650	400
660	390
670	380
680	370
690	360
700	350
710	340
720	330
730	320
740	310



## PRELIMINARY EXAMINATION 2019

#### **PRIMARY 6**

## PAPER 1 (BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

#### **INSTRUCTIONS TO PUPILS**

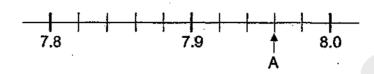
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is **NOT** allowed.

Name:		(	)
Class: Primary 6 (	)		

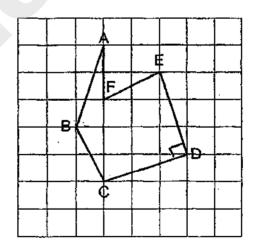
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Round 895 547 to the nearest thousand.
  - (1) 895 000
  - (2) 895 500
  - (3) 896 000
  - (4) 900 000
- 2 2 tenths and 6 thousandths is \_\_\_\_\_
  - (1) 0.206
  - (2) 2.006
  - (3) 20.06
  - (4) 200.2

3 In the scale below, what is the value of A?

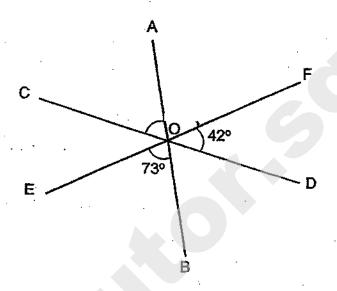


- (1) 8.2
- (2) 7.96
- (3) 7.95
- (4) 7.93
- 4 Which two lines in the square grid are perpendicular to each other?



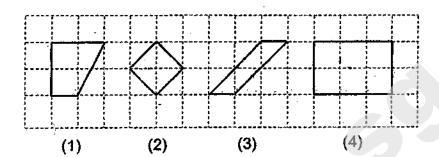
- (1) AB and BC
- (2) BC and CD
- (3) CD and DE
- (4) DE and EF

in the figure below, AOB, COD and EOF are straight lines. ∠DOF = 42° and ∠BOE = 73°. Find ∠AOC.



- (1) 42°
- (2) 65°
- (3)  $73^{\circ}$
- (4) 115°

6 In the square grid below, which shape is a trapezium?



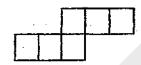
7 The figure below shows a cube.

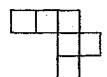


Which of the following is a net of the cube?

(1)

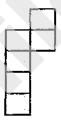
(2)





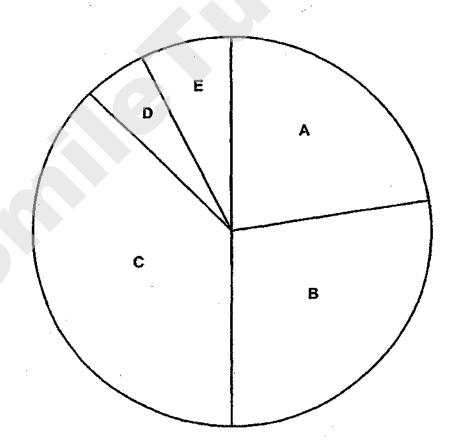
(3)

(4)





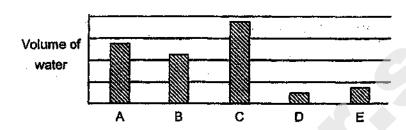
- 8 Find the value of r such that 4r-r=24.
  - (1) 24
  - (2) 12
  - (3) 8
  - (4) 4
- 9 The pie chart below shows the volume of water in containers A, B, C, D and E.



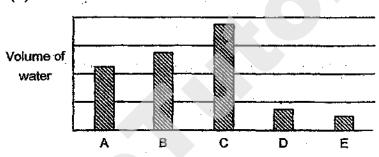
Refer to question and options on the next page.

Which bar graph best represents the information in the pie chart?

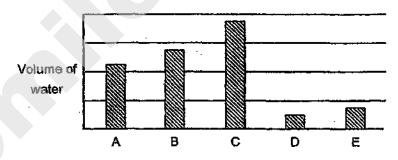
(1)



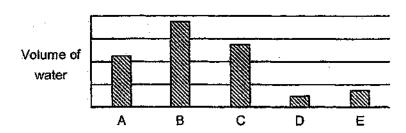
(2)



(3)



(4)

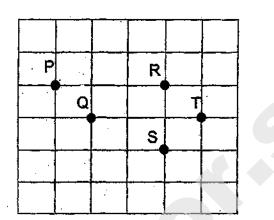


Which one of the following is likely to be the height of a vending machine in the school canteen?



- (1) 20 m
- (2) 2 m
- (3) 20 cm
- (4) 2 cm
- 11 Which one of the following fractions is nearest to 1?
  - (1)  $\frac{2}{3}$
  - (2)  $\frac{3}{4}$
  - (3)  $\frac{4}{5}$
  - $(4) \frac{6}{7}$

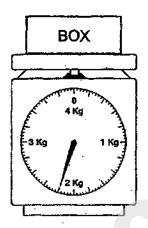
12 The square grid below shows the positions of points P, Q, R, S and T.



Which of the following statements is true?

- (1) Point S is north of Point R.
- (2) Point T is west of Point Q.
- (3) Point Q is south-east of Point P.
- (4) Point P is north-west of Point S.

13 What is the reading shown on the weighing scale below?



- (1) 2.01 kg
- (2) 2.02 kg
- (3) 2.1 kg
- (4) 2.2 kg
- The height of Ashley is  $\frac{2}{3}$  of the height of Zheng Xin. The ratio of the height of Zheng Xin to that of Chloe is 4:5. Find the ratio of the height of Chloe to the total height of Zheng Xin and Ashley.
  - (1) 3:4
  - (2) 4:3
  - (3) 4:15
  - (4) 15:4

15 The first 22 numbers of a number pattern are given below.

$$2,2,0,1,4,2,2,2,0,1,4,2,2,2,0,1,4,2,2,2,0,1,...$$
 1st  $22^{nd}$ 

Find the sum of the first 48 numbers in the number pattern.

- (1) 85
- (2) 86
- (3) 87
- (4) 88



# PRELIMINARY EXAMINATION 2019

#### **PRIMARY 6**

## PAPER 1 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour

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

Name:		(	)
Class: Primary 6 (	)		

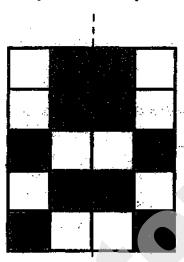
Booklet B

/ 25

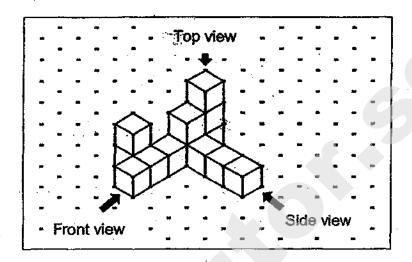
Any query on marks awarded should be raised by <u>2 September 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

	d. (5 marks)
16	Amanda had 2 m of ribbon at first. She used 80 cm of the ribbon What fraction of the ribbon did she use?
-	
	Ans:
17	Express 6.04 kilograms in grams.

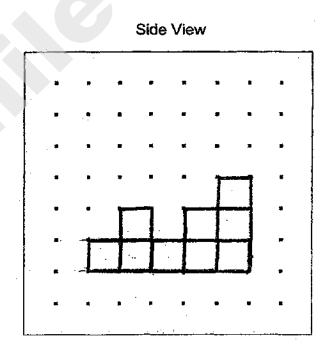
The figure is made up of identical squares. Shade two more squares so that the figure has exactly one line of symmetry.



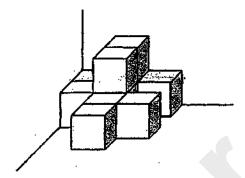
19 Johnson stacked 13 unit cubes and glued them together to form the solid below.



Draw the side view of the solid on the grid below.



20 The solid below is formed by unit cubes. How many unit cubes are there?



your	answers in the spaces provided. For questions which require units, ganswers in the units stated. (20 mar	ive
21	Write down the common multiple of 3 and 5 that is nearest to 27	
		4
	Ans:	
· <del></del>		
22	A wallet costs \$30.40. A belt costs \$16.60 less than the wallet.	
	(a) Find the cost of the belt.	
	(b) Find the cost of 40 such wallets.	
	Ans: (a) \$	

(b)

The opening hours of a shop are shown below. How long is the shop open each day? Give your answer in hours and minutes.

The Precious Bear Shop Open Daily 10.30 a.m. to 5.45 p.m.

Ans:	 h	 min
A10,	 • • •	 312161

There were 500 people at a food fair on Monday. On Tuesday, there were 400 people at the food fair. What was the percentage decrease in the number of people who went to the food fair from Monday to Tuesday?

Ans: \_\_\_\_\_%

25 Mrs Tham bought 2780 beads to make some necklaces. She used 9 beads for each necklace. What was the greatest number of such necklaces made by Mrs Tham?

Ans: \_\_\_\_\_

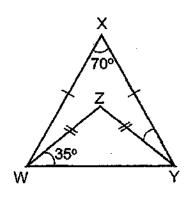
26 Andy has  $\frac{1}{2} \ell$  of oil. He has  $\frac{1}{5} \ell$  less oil than Mei Yan. How much oil does Mei Yan have?

Ans: \_\_\_\_\_

27 Mr Chan packs  $\frac{3}{4}$  kg of curry powder into small packets Each small packet contains  $\frac{1}{8}$  kg of curry powder. How many small packets of curry powder are there?

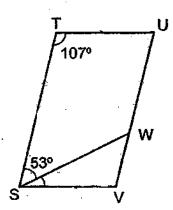
Ans: \_\_\_\_\_

In the figure below, WXY and WZY are isosceles triangles. WX = YX and WZ = YZ. \( \times WXY = 70^\text{o} \) and \( \times YWZ = 35^\text{o}. \) Find \( \times XYZ.



Ans: \_\_\_\_\_\_o

29 In the figure below, STUV is a parallelogram.∠STU = 107° and ∠TSW = 53°. Find ∠VSW.



Ans:

30 The length and breadth of a rectangle are 3y metres and (y + 1) metres respectively. Find its perimeter given that y = 5.

Ans: \_\_\_\_\_ m



# PRELIMINARY EXAMINATION 2019

## **PRIMARY 6**

# MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

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

Name:	( )	
Class: Primary 6 ( )	<u> </u>	<u> </u>
Parent's Signature:	Booklet A	/ 20
	Booklet B	/ 25
•	Paper 2	/ 55
	Total	/ 100

Any query on marks awarded should be raised by <u>2 September 2019</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Adele has <i>n</i> albums. Benjamin has 5 <i>n</i> albums. Adele has 8 few albums than Benjamin. How many albums does Adele have?
Ans:
Ton A taken 26 minutes to fill a tonk commistate. Ton D taken
Tap A takes 36 minutes to fill a tank completely. Tap B takes minutes to fill the same tank completely. How many minutes will Tap and Tap B take to fill the tank completely when they are turned on at t same time?
minutes to fill the same tank completely. How many minutes will Tap and Tap B take to fill the tank completely when they are turned on at t
minutes to fill the same tank completely. How many minutes will Tap and Tap B take to fill the tank completely when they are turned on at t
minutes to fill the same tank completely. How many minutes will Tan and Tap B take to fill the tank completely when they are turned on at t same time?

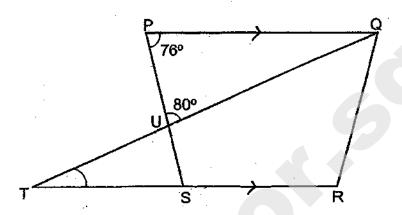
The average number of books that Ada, Baba and Cindy have is 17. Cindy has 21 books. Baba has more books than Ada. At most, how many books does Ada have?

Ans:

Susan deposits \$50 000 in a bank for one year. The interest rate is 1,8% per year. How much will she have in the bank at the end of one year?

Ans: \$\_\_\_\_\_

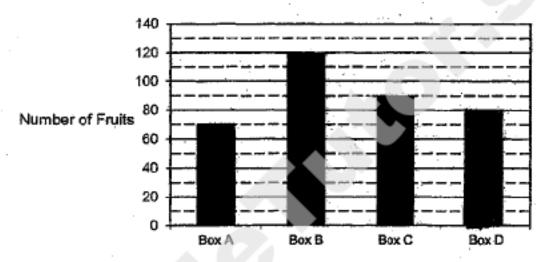
in the figure below, PQRS is a trapezium. TUQ and TSR are straight lines. PQ // SR. ∠PUQ = 80° and ∠QPU = 76°. Find ∠STU.



Ans:

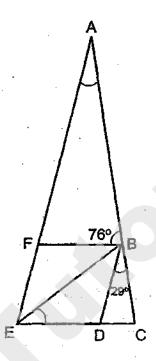
For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

6 Mdm Ler has 4 boxes of fruits, Box A, Box B, Box C and Box D. The bar graph below shows the number of fruits in each box. The bar representing Box D has not been drawn.



- (a) How many more fruits are there in Box C than Box A?
- (b) Box B contains only pears and oranges. There are 4 more pears than oranges in Box B. How many oranges are there in Box B?
- (c) The total number of fruits in the 4 boxes is 360. Find the number of fruits in Box D.

7 In the figure below, BDEF is a rhombus. ACE is a triangle.  $\angle ABF = 76^{\circ}$  and  $\angle DBC = 29^{\circ}$ .

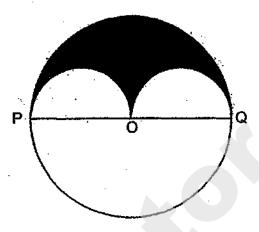


- (a) Find ∠BED.
- (b) Find ∠EAC.

Ans: (a) \_\_\_\_\_[2]

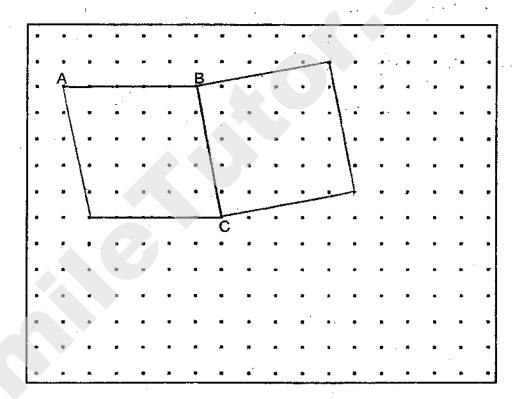
(b) [2]

The figure below shows a large circle and two identical small semicircles. The diameter of the large circle, POQ, is 24 cm.



- (a) Find the perimeter of the shaded part. Τακεπ=3.14
- (b) Find the total area of the unshaded parts. Take  $\pi = 3.14$ .

- In the square grid below, AB and BC form two sides of a parallelogram ABCD. Each side is drawn by joining dots on the square grid with a straight line. In the same way,
  - (a) complete the drawing of parallelogram ABCD. [1]
  - (b) Using the given line BC, complete the drawing of square BCEF such that it does not overlap parallelogram ABCD. [2]



At a sports shop, each basketball cost \$23.60 and each football cost \$36.40. Mr Chong bought 3 times as many basketballs as footballs. He spent \$550.40 more on the basketballs than the footballs. How many footballs did Mr Chong buy?

Ans: \_\_\_\_\_ [3]

There are some children in a hall.  $\frac{5}{9}$  of them are boys. The girls are divided equally into 11 groups. The total number of girls is fewer than 60. There are 6 boys who wear spectacles. How many boys do not wear spectacles?

Ans: \_\_\_\_\_[3

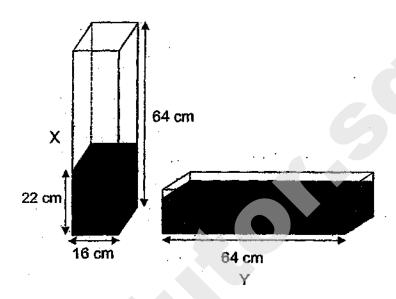
Da Ren has 10 candies. Elijah has 30 candies. Faith has 4 fewer candies than the average number of candies that Da Ren, Elijah and Faith have. How many candies do they have altogether?

Ans: \_\_\_\_\_[3]

At 7 a.m., Cyclist A left Town M for Town N. At 8 a.m., Cyclist B left Town M for Town N. Cyclist A travelled at a constant speed of 15 km/h and Cyclist B travelled at a constant speed of 10 km/h. Both cyclists did not change their speeds throughout. After arriving at Town N, Cyclist A immediately left Town N for Town M. Cyclist A and Cyclist B passed each other at 11 a.m. At what time did Cyclist B arrive at Town N?

Ans: [3

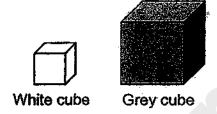
14 In the figure below, X and Y are identical rectangular tanks. X has a square base of side 16 cm and a height of 64 cm.



At first, X was completely filled with water and Y was empty. John poured the water from X to Y, without spilling, until the height of the water level in X became 22 cm.

- (a) How much water was there in Y in the end?
- (b) Find the height of water in Y in the end.

The figure below shows a grey cube and a white cube. The length of each edge of the grey cube is twice that of the white cube. Xin Neng wants to use 5 grey cubes and the least number of white cubes to build a new cube.



- (a) How many white cubes does Xin Neng need to build the new cube?
- (b) Given that the volume of the new cube is 1728 cm³, find the length of the edge of the white cube.

Ans:	(a)	 [2]

16 The table below shows the number of pens in each type of bag.

Type of bag	Number of pens per bag
Red	40
Blue	50
Green	60

- (a) Mdm Ng has a total of 8 red and green bags. Find the smallest possible difference between the total number of pens in Mdm Ng's red bags and the total number of pens in her green bags.
- (b) Mr Lee has some red and some blue bags. The ratio of the total number of pens in Mr Lee's red bags to the total number of pens in his blue bags is 6 : 5. Express the number of his blue bags as a fraction of the total number of his bags.

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

- Joong Ki, Minho and Ali have some green and some red buttons. Joong Ki has 9 more buttons than Minho. Minho has 5 more green buttons than Joong Ki. The ratio of the number of red buttons that Joong Ki has to the number of red buttons that Minho has is 5:3. The ratio of the number of green buttons to red buttons Ali has is 3:1.
  - (a) How many red buttons do Joong Ki and Minho have altogether?
  - (b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

	True	False	Not possible to tell
Ali has 11 more green buttons than red buttons.			
The total number of buttons that Joong Ki, Minho and Ali have is an odd number.			

[2]

Ans:	(a)	 [3]
Ans:	(a)	 [ပ]

SCHOOL :

NANYANG PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT: MATH

TERM :

2019 PRELIM

## PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	2	3	2	1	1	3	3	2

Q 11	Q12	Q13	Q14	Q15
4	3	4	1	4

### PAPER 1 BOOKLET B

Q16)	2m = 200cm
	$\frac{80}{200} = \frac{2}{5}$
Q17)	6.04kg = 6040g
Q18)	
040	
Q19)	Side View
	No od o homo Autoro Visit amilatutan am

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Q20)	10
Q21)	30
L	
Q22)	a)\$30.40 - \$16.60 = \$13.80
	b)\$30.40 x 40 = \$1216
Q23)	7h 15min
Q24)	500 - 400 = 100
	$\frac{100}{500}$ x 100 = 20%
Q25)	$2790 \div 9 = 308$
Q26)	$\frac{1}{1} + \frac{1}{1} = \frac{5}{1} + \frac{2}{1} = \frac{7}{1}$
	2 5 10 10 10
Q27)	$\frac{3}{7} = \frac{24}{11}$
	4 32 1 4
	$\frac{1}{8} = \frac{4}{32}$
	24 ÷ 4 = 6
Q28)	∠ZWY =∠ZYW
	180° - 70° = 110°
	110° ÷ 2 = 55°
	55° - 35° = 20°
Q29)	180° - (107° + 53°) = 20°
Q30)	5 × 3 = 15
,	5 + 1 = 6
	$6 \times 2 = 12$
	15 x 2 = 30
	30 + 12 = 42m
L	

# PAPER 2

Q1) A: B  
1: 5  

$$5-1=4$$

$$8 \div 4 = 2$$
Q2) A B  

$$36min \to tank$$

$$1min \to \frac{1}{36} tank$$

$$1min \to \frac{1}{72} tank$$

$$In 1min \to A+B = \frac{1}{36} + \frac{1}{72} = \frac{2}{72} + \frac{1}{72} = \frac{3}{72}$$

$$= 72 \div 3 = 24 min$$

	·
Q3)	17 x 3 = 51
,	51 - 21 = 30
•	$30 \div 2 = 15$
	15 – 1 = 14
$\overline{\Omega}$	
Q4)	$\frac{101.8}{100}$ x \$50000 = \$50900
	100
Q5)	∠PSR = 180° – 76° = 104°
<b>Q</b> 0)	
	∠QUS = 180° – 80° = 100°
	$\angle$ STU = 180° – 80° – 76° = 24°
Q6)	a)90 – 70 = 20 fruits
	b)120 - 4 = 116
	116 ÷ 2 = 58 oranges
	c)70 + 90 + 120 = 280
	360 – 280 = 80fruits
Q7)	a)180° - (76° + 29°) = 75°
	$75^{\circ} \div 2 = 37.5^{\circ}$
	b)37.5° x 2 = 75°
	180° – 75° = 105°
	180° – 105° = 75°
	180° – 75° – 76° = 29°
O8/	
Q8)	a)24 x 3.14 x $\frac{1}{2}$ = 37.68
	24 ÷ 2 = 12
	12 x 3,14 = 37.68
	37.68 + 37.68 =75.36 cm
	b)12 x 12 x 3.14 x $\frac{1}{2}$ = 226.08
	$12 \div 2 = 6$
	$6 \times 6 \times 3.14 = 113.04$
	113.04 + 226.08 = 339.12cm <sup>2</sup>
Q9)	
(3,0)	
	F P P P P P P P P P P P P P P P P P P P
	1
	E
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Q10)	$$23.60 \times 3 = $70.80$
	\$70.80 <b>-</b> \$36.40 <b>=</b> \$34.40
	\$550.40 ÷ \$34.40 = 16 footballs
Q11)	44 ÷ 4 = 11
<u> </u>	11 x 5 = 55
	55 – 6 = 49 boys
Q12)	30 - 4 = 26
	26 + 10 = 36
	36 ÷ 2 = 18
	18 x 3 = 54
Q13)	
	15 x 4 = 60 8a.m. 12p.m. 12.30p.m.
	60 + 30 = 90
	90 ÷ 2 = 45
	$45 \div 10 = 4\frac{1}{2}h$ ANS: 12.30p.m.
Q14)	
	42 x 16 x 16 = 10752
	10752cm³→ 10.752
<u></u>	b)10752 ÷ 64 ÷ 16 = 10.5cm
Q15)	
	8 x 3 = 24 cubes
	3/4500
	b) $\sqrt[3]{1728}$ = 12 12 ÷ 2 = 6
	$6 \div 2 = 3 \text{cm}$
Q16)	
,	$60 \times 3 = 180$ $(6 \times 20) : (5 \times 20)$
	200 = 180 = 20
	$120 \div 40 = 3$
	$100 \div 50 = 2$
:	$\frac{2}{3+2} = \frac{2}{5}$
Q17)	a)9 + 5 = 14
	5-3=2
	14 ÷ 2 = 7
]	7 x 8 = 56 red buttons
!	b)
	True False Not
İ	



# RAFFLES GIRLS' PRIMARY SCHOOL PRELIMINARY EXAMINATION MATHEMATICS (PAPER 1) PRIMARY 6

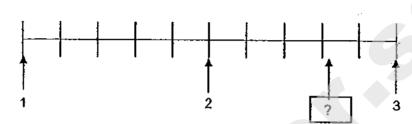
Name:	( )
Form Class: P6	Math Teacher:
Date: 21 Aug 2019	Duration: 1 hour
Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	•

## **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.

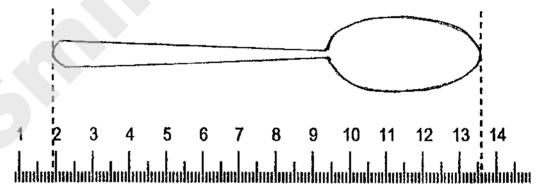
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1.



What is a possible number in the box?

- (1) 2.35
- (2) 2.55
- (3) 2.63
- (4) 2.75
- 2. What is the length of the spoon?

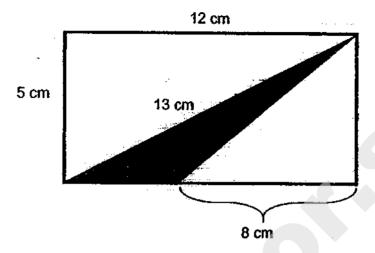


- (1) 1.9 cm
- (2) 11.7 cm
- (3) 12.7 cm
- (4) 13.6 cm

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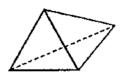
- 3. Which digit in 107 438 is in the ten thousands place?
  - (1) 1
  - (2) 0
  - (3) 3
  - (4) 4
- 4. Round 10 989 to the nearest hundred.
  - (1) 10 900
  - (2) 10 990
  - (3) 11 000
  - (4) 11 090
- 5. Alex, Ben, Carl and Den shared a cake. Alex ate  $\frac{1}{5}$  of the cake. Ben ate  $\frac{3}{10}$  of the cake. Carl ate  $\frac{1}{3}$  of the cake while Dan ate the remaining cake. Who ate the largest portion of the cake?
  - (1) Alex
  - (2) Ben
  - (3) Carl
  - (4) Dan

6. Find the area of the shaded triangle.



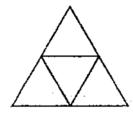
- (1) 10 cm<sup>2</sup>
- (2) 20 cm<sup>2</sup>
- (3) 30 cm<sup>2</sup>
- (4) 32.5 cm<sup>2</sup>
- 7. Mary and Sally had an equal number of stamps. Mary gave  $\frac{3}{7}$  of her stamps to Sally. What was the ratio of Sally's number of stamps to Mary's number of stamps in the end?
  - (1) 10:7
  - (2) 10:3
  - (3) 7:3
  - (4) 5:2

8. The solid has 4 triangular faces.



Which of the following nets can be folded to form this solid?

(A)



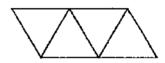
(B)



(C)



(D)



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

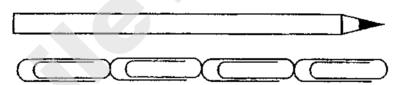
9. The table shows the number of toys produced at a factory from Monday to Saturday.

Day	Number of toys produced
Monday to Friday	3k per day
Saturday	4k - 5

What was the total number of toys produced from Monday to Saturday? Express your answer in terms of *k* in the simplest form.

- (1) 7k-5
- (2) 15k
- (3) 19k
- (4) 19k 5

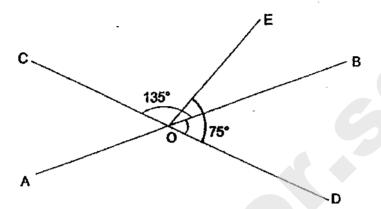
10.



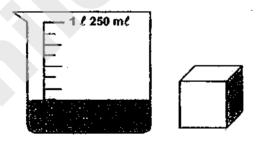
The length of 1 paper clip is 0.018 m. What is the length of the pencil?

- (1) 0.072 cm
- (2) 0.72 cm
- (3) 7.2 cm
- (4) 72 cm

11. In the figure, AOB and COD are straight lines. ∠COB = 135° and ∠EOD = 75°. Find ∠EOB.



- (1) 30°
- (2) 45°
- (3) 90°
- (4) 105°
- 12. What is the total volume when the 6-cm metal cube is placed in the container?



- (1) 216 cm<sup>3</sup>
- (2) 375 cm<sup>3</sup>
- (3) 516 cm<sup>3</sup>
- (4) 591 cm<sup>3</sup>

- 13. 30% of Tom's savings is equal to 25% of Mary's savings. What percentage of Tom's savings is Mary's savings?
  - (1)  $33\frac{1}{3}\%$
  - (2)  $83\frac{1}{3}\%$
  - (3) 120%
  - (4) 300%
- 14. The table shows the exchange rate for Singapore dollar and US dollar.

1 Singapore dollar (SGD) = 0.70 US dollar (USD)

How many Singapore dollars will I need to exchange for 1400 US dollar?

- (1) 700 SGD
- (2) 980 SGD
- (3) 1400.30 SGD
- (4) 2000 SGD
- 15. A box can fit exactly 8 large cubes, 64 medium cubes, or 512 small cubes. 3 large cubes, 32 medium cubes and some small cubes are put into such a box. What is the greatest possible number of small cubes that can fit into the box?
  - (1) 64
  - (2) 128
  - (3) 192
  - (4) 256

Questions 16 to 20 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.

(5 marks)

16. What is the answer in the box?

$$10\frac{5}{7} = \frac{56}{7} +$$

Leave your answer as an improper fraction.

Ans: \_\_\_\_\_

17. Evaluate  $48 \times (8-4 \times 2)$ .

Ans: \_\_\_\_\_

18. When it is 10 a.m. in Singapore, it is 4 a.m. in South Africa on the same day. What time would it be in Singapore when it is 11.30 a.m. in South Africa? Give your time in 24-hour clock.

Ans:

19.	A number is 0.50 when rounded to the nearest hundredth. What is the smallest possible number?
	Ans:
20.	Find the value when 1.099 is subtracted from 3.
	Ans:

Questions 21 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. All diagrams are not drawn to scale. (20 marks)

ZI. WINDERS HIS CHRONICE HIS NO DON	21.	<ol> <li>What is the ar</li> </ol>	iswer in th	se box?
-------------------------------------	-----	------------------------------------	-------------	---------

Ans:

22. A painter has 2 t of red paint. He used  $\frac{1}{5}$  of it to mix with  $\frac{2}{3}\ell$  of blue paint to get some purple paint. How much purple paint did he get?

Ans:

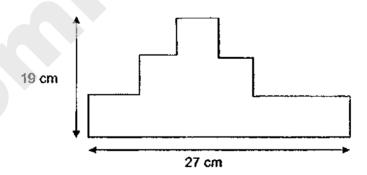
23.	Mr Tan deposited \$4000 in a fixed deposit account at ABC Bank at an interest rate of 1.5% per year. What was the amount of the interest earned in one year?
	Ans: \$
24.	Muthu had $9p$ sweets. He gave 5 sweets to each of his three friends and packed the remaining sweets equally into 3 packets. How many sweets were there in each packet? Give your answer in terms of $p$ in the simplest form.
	Ans:

25. Randy has 4 boxes of marbles. The number of marbles in each of the boxes is shown in the table.

Box	Number
Α	27
В	19
С	25
D	26

Which box should he remove so that the average number of the marbles in the remaining boxes is 24?

26. Find the perimeter of the figure.

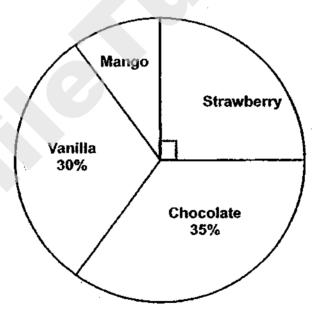


Ans: cm

27. In a 4 by 100 m relay, Rani completed the first 100 m in 10 s, Eunice completed the second 100 m in 15 s, Joyce completed the third 100 m in 13 s and Siti completed the last 100 m in 12 s. What was the average speed of the 4 children for the relay?

Ans: \_\_\_\_\_m/s

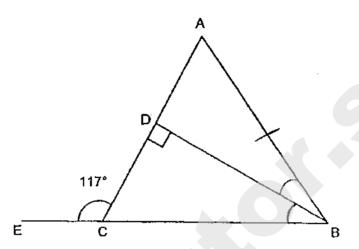
28. A group of children was asked to name their favourite flavour of ice-cream. The pie chart shows their preference.



The number of children who liked chocolate and strawberry ice-cream was 42 more than the number of children who liked vanilla ice-cream. How many children liked mango ice-cream?

Ans:	
/ II IQ.	

29. In the figure, ABC is an isosceles triangle with BC = BA. BE is a straight line. ∠DCE =117°. Find ∠ABD.



Ans: \_\_\_\_

30. The number of stickers Kevin had was  $\frac{1}{4}$  more than the number of stickers John had. After Kevin gave 96 stickers to John, John had twice as many stickers as Kevin. How many stickers did John have at the end?

Ans:

**End of Paper** 





# RAFFLES GIRLS' PRIMARY SCHOOL PRELIMINARY EXAMINATION MATHEMATICS (PAPER 2) PRIMARY 6

Name:	(,)
Form class: P6	Math Teacher:
Date: 21 Aug 2019	Duration: 1 h 30 min

## **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.

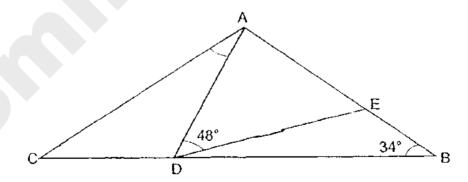
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale. (10 marks)

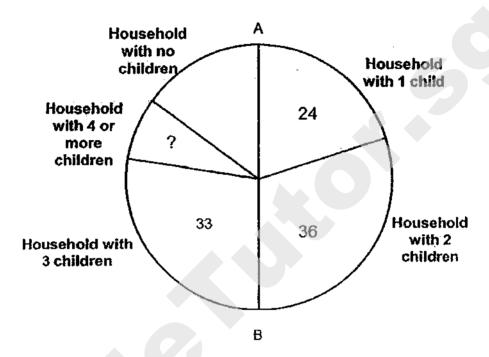
John had a collection of local and foreign stamps. The ratio of the number of local stamps to the number of foreign stamps he had at first was 7:3. After giving away 46 foreign stamps, the ratio of the number of local stamps to the number of foreign stamps became 5:2. How many foreign stamps did John have in the end?

Ans : \_\_\_\_\_\_

2. In the figure, ABC is an isosceles triangle with AC = AB,  $\angle$ ABD = 34°. AD = AE with  $\angle$ ADE = 48°. Find  $\angle$ CAD.



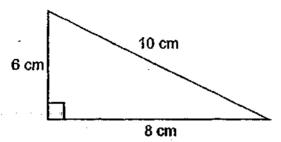
3. A survey was conducted on the number of children in each household within a block of flats. The pie chart shows the results of the survey. AB is a straight line.



The number of household with 2 children was twice the number of household with no children. Express the number of household with 4 or more children as a fraction of the total number of household. Give your answer in the simplest form.

\ns	٠	
<b>7113</b>		

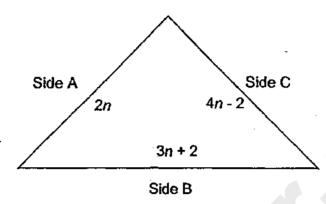
4. Terence had a length of wire. He used the wire to make the triangle as shown.



With the same wire, he used the entire length to make a square. What was the percentage increase in the area of the square compared to the area of triangle?

Ana	٠			- 1	%
Ans		 	 		/0

5. The figure below is a triangle with sides A, B and C.



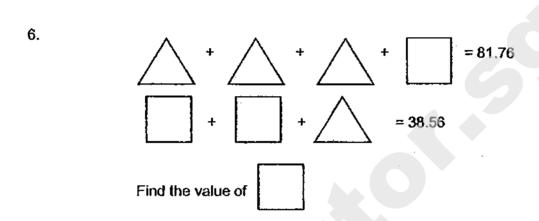
Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick(v) to indicate your answer.

Statement	True	False	Not possible to tell
a) The length of side B is longer than the length of side A.			
b) The figure is an isosceles triangle as length of side A is equal to length of side C.			
c) The perimeter of the triangle is (9n + 4) unit.			

For questions 6 to 17, 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.

All diagrams are not drawn to scale.

(45 marks)

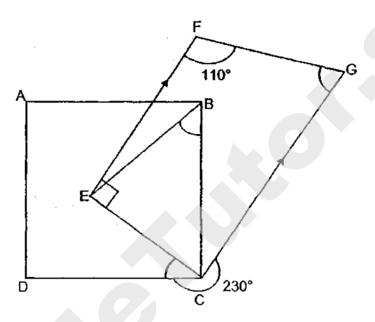


_ [3]

7. Ella and May had \$358 altogether. Ella and Kevin had \$698 altogether. Kevin had 5 times as much money as May. How much did Ella have at first?

Ans : \_\_\_\_\_ [3]

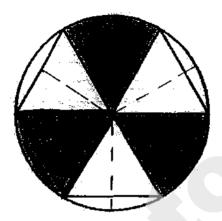
- 8. In the figure, ABCD is a square and EFGC is a trapezium. CE = BE, ∠EFG = 110° and ∠DCG = 230°.
  - (a) Find ∠FGC.
  - (b) Find ∠CBE.



Ans: (a)		[1	]
----------	--	----	---

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9. The figure is made up of a circle and three equilateral triangles of side 18 cm. Find the perimeter of the shaded parts. Take  $\pi$  = 3.14.

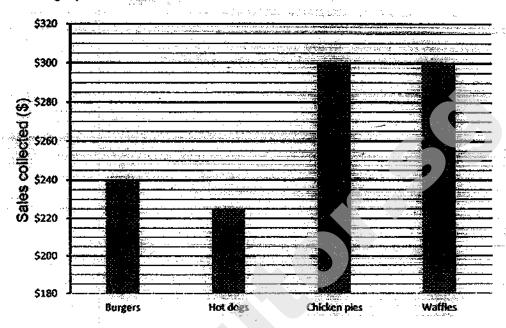


Ans : \_\_\_\_\_ [3]

10. Valerie had 40% more books than Isabelle. After Valerie bought some books, her number of books increased by 25%. Isabelle gave away 25% of her books. In the end, both the girls had 750 books altogether. How many books did Valerie have at first?

Ans:\_\_\_\_[3]

11. The bar graph shows the sales of four food items at a fun fair.



The table shows the prices of the food items.

Type of food items	Price per item	
Burger	\$5	
Hot dog	\$3	
Chicken pie	\$4	
Waffles	\$3	

- (a) The quantity for two of the food items sold was the same. Which were the two food items?
- (b) What percentage of the food items sold were burgers? Leave your answer to the nearest 1 decimal place.

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

12. The table shows the charges for electricity consumption by ABC company.

Usage in kilowatts (kW)	Charges per kW	
First 50 kW	\$0.55	
Next 100 kW	\$0.72	
Every additional kW and thereafter	\$0.88	

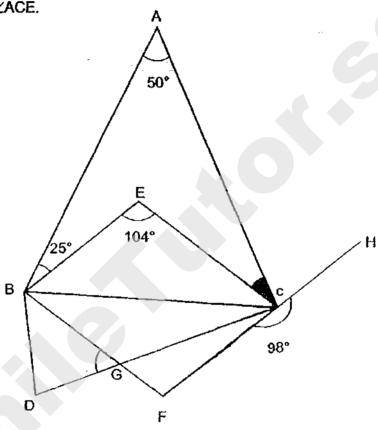
- (a) Mrs Tan's family used 50 kW of electricity in July. How much did her family pay for their electricity consumption?
- (b) Mr Lee spent \$129.42 on electricity consumption in August. How many kilowatts of electricity did his family consume?

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

13. In the figure, ABC and BDC are triangles and BECF is a parallelogram. FH is a straight line, ∠GCH = 198°. ∠BEC = 104°, ∠BAC = 50° and ∠ABE = 25°.

(a)- Find ∠DGB.

(b) Find ∠ACE.

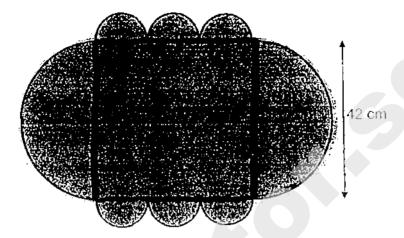


Ans: (a)		[2]
----------	--	-----

14. The mass of a container which is  $\frac{3}{5}$  filled with flour is 10.84 kg. When  $\frac{1}{3}$  of the flour is removed, the mass of the container and the remaining flour is 8.5 kg. Find the mass of the container.

Ans: [4]

15. The figure is made up of a square of side 42cm, 2 identical big semicircles and 6 identical small semicircles.



- (a) What is the radius of each small semicircle?
- (b) Find the area of the figure. Take  $\pi = \frac{22}{7}$ .

16. At Station A, the number of children was  $\frac{3}{5}$  of the number of adults on the MRT. At Station B  $\frac{2}{9}$  of the adults and some children alighted from the MRT. The number of children became  $\frac{3}{7}$  of the number of adults. At Station C, 98 adults and 358 children boarded the MRT and there was an equal number of adults and children.

- (a) How many passengers were there on the MRT after Station C?
- (b) How many children alighted at Station B?

Ans: (a)	[4]
(h)	[1]

- 17. Mr Wong bought a number of red, blue and green balloons. The ratio of the number of red balloons to the number of blue balloons was 5:4 while the ratio of the number of blue balloons to the number of green balloons was 3:7. After bursting some green balloons and buying another 168 blue balloons, he found that there was a decrease of 25% in the total number of blue and green balloons. In the end, the number of red, blue and green balloons he had was 1440.
  - (a) How many balloons did Mr Wong have at first?
  - (b) How many green balloons were burst?

Ans: (a)			[3]
(h)			[2]

**End of Paper** 

SCHOOL: RAFFLES GIRLS' PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

# PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	2	3	3	1	4	3	4	3

ſ	Q 11	Q12	Q13	Q14	Q15
	1	4	3	4	1

# PAPER 1 BOOKLET B

$\frac{75}{2} = \frac{56}{2} = \frac{19}{2}$
$\frac{1}{7} - \frac{1}{7} - \frac{1}{7}$
$8 - 8 = 0$ $48 \times 0 = 0$
1730
0.495
1,901
4536 - 3360 = <b>117</b> 6
1176 ÷ 24 = 49
$\frac{\frac{1}{5} \times \frac{2}{1} = \frac{2}{5}}{\frac{2}{5} + \frac{2}{3} = \frac{6}{15} + \frac{10}{15}}$
5 1 5
$\frac{2}{3} + \frac{2}{3} = \frac{6}{3} + \frac{10}{3}$
5 3 15 15
$=\frac{16}{15}$
$=1\frac{1}{15}$
$4000 \div 100 = 40$
$40 \times 1.5 = 60$
9p-15
3
C
19x2=38
27x2=54  Need a home tutor? Visit smiletutor so

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	54+38=92	
Q27)	100mx4=400m	
	10s+15s+13s+12s=50s	
	$400\text{m} \div 50s = 8m/s$	
Q28)	5u + 7u = 12u	
	12u - 6u = 6u	
	$6u \rightarrow 42$	
	$1u \rightarrow 42 \div 6 = 7$	
İ	20u - 12u - 6u = 2u	
	$2u \to 2 \times 7 = 14$	
Q29)	$180^{\circ} - 117^{\circ} = 63^{\circ}$	
	$180^{\circ} - 63^{\circ} - 90^{\circ} = 27^{\circ}$	
Q30)	5u - 3u = 2u	
	$2u \rightarrow 96$	
	$1u \rightarrow 96 \div 2 = 48$	
	$6u \rightarrow 48 \times 6 = 288$	

# PAPER 2

Q1)	15u - 14u = 1u 1u→46 14u→46 x 14 = 644	
Q2)	180 - (34x2) = 112 180 - (48x2) = 84 112 - 84 = 28°	•
Q3)	$36 \div 2 = 18$ $36 + 24 = 60$ $60 - 33 - 18 = 9$ $Tota! \rightarrow 60 \times 2 = 120$ $\frac{9}{120} = \frac{3}{40}$	
Q4)	10 + 6 + 8 = 24 (total length of wire) 24 ÷ 4 = 6 (1 side of square) $\frac{1}{2}$ x 6 x 8 = 24 6 x 6 = 36 36 - 24 = 12 $\frac{12}{24}$ x 100 = 50%	
Q5)	a)True	Need a home tutor? Visit smiletutor.s

	b)Not possible to tell c)False
Q6)	3T + 1S→81.76 1T + 2S→38.56 x 3 = 115.68
	11 + 23 - 30.56 x 3 - 115.66 115.68 - 81.76 = 33.92
	33.92 ÷ 5 = 6.784
	33.32 · 0 = 0.104
Q7)	E+M = 358
	E+K = 698
	698 – 358 = 340
	5u – 1u = 4u
	4u→340
	$1u \rightarrow 340 \div 4 = 85$
	358 – 85 = \$273
	1400 700
Q8)	a)180° – 110° = 70°
	b)90° – 40° = 50°
Q9)	3.14 x 36 = 113.04
•	18 x 2 = 36
	1/4 x 3.14 x 36 = 28.26
	$28.26 \times 2 = 56.52$
	$36 \times 3 = 108$
	108 + 56.52 = 164.52cm
Q10)	Valerie $\Rightarrow \frac{25}{100}$ x 140 = 35 (u)
	100
	140u + 35u = 175u (end)
	$ sabelle \rightarrow \frac{25}{100} \times 100u = 25u$
	100u – 25u = 75u
	Total (u)→75u + 175u = 250u
	$250u \rightarrow 750$
	2500 → 750 ÷ 250 = 3
	$140u \rightarrow 140 \times 3 = 420$
	1400 / 140 X 3 = 420
Q11)	a)hot dog and chicken pies
,	b)48 + 75 + 75 + 100 = 298
	$\frac{48}{298}$ x 100 $\approx$ 16.1%
	298 100 ~ 10.170
Q12)	a)0.55 x 50 = \$27.50
- (L)	Need a home tutor? Visit smiletu

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b)129.42 - 27.50 = 101.92
           0.72 \times 100 = 72
           101.92 - 72 = 29.92
           29.92 \div 0.88 = 34
           100 + 34 + 50 = 184kw
Q13) | a | 198 - 180 = 18 (< GCF)
          180 - 104 - 18 = 58^{\circ} (< CGF)
        b)<EBD + <ECB \rightarrow180 - 104 = 76
        <ACE\rightarrow180 - 50 - 76 - 25 = 29°
Q14) 10.84 - 8.5 = 2.34
        2.34 \times 2 = 4.68
        8.5 - 4.68 = 3.82kg
Q15) | a)42 \div 6 = 7cm
        b)\frac{22}{7}x 7 x 7 = 154
          154 \times 3 = 462
           42 \div 2 = 21
            \frac{22}{7}x 21 x 21 = 1386
           42 \times 42 = 1764
           Total \rightarrow 1764 + 1386 + 462 = 3612cm<sup>2</sup>
Q16) \mid a)15u + 358 = 358 + 98
           358 - 98 = 35u - 15u
           20u = 260
           1u = 260 \div 20 = 13
           15u \rightarrow 13 \times 15 = 195
           195 + 358 = 553
           553 x 2 = 1106
        b)27u - 15u = 12u
          12u \rightarrow 12 \times 13 = 156
Q17)
        a)28u + 12u = 40u
        \frac{25}{100} \times 40 = 10
          40u - 10u = 30u (now blue and green)
          30u + 15u = 45u
          45u→1440
          1u \rightarrow 1440 \div 45 = 32
          15u + 12u + 28u = 55u
          55u \rightarrow 55 \times 32 = 1760
        b)15u\rightarrow32 x 15 = 480 (red)
           12u \rightarrow 12 \times 32 = 384 \text{ (blue)}
                                                            Need a home tutor? Visit smiletutor.sg
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1440 - 480 - 384 - 168 = 408 28u→32 x 28 = 896 896 - 408 = 488



# RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION 2019 MATHEMATICS

**PRIMARY SIX** 

Name	; <u> </u>	(	)
Class	: Primary 6 (	ر	
Date	: 23 August 2019		
Duratio	n: 60 min (Total time for Booklets A and B	)	

PAPER 1

(BOOKLET A)

### **INSTRUCTIONSTO CANDIDATES**

- 1. Write your Name, Register No. and Class in the space above.
- 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 on 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 (1, 2, 3 or 4) on the Optical Answer Sheet.

- 1. What is the value of 10 + 2000?
  - (1) 200
  - (2) 0.5
  - (3) 0.05
  - (4) 0.005
- 2. The length of a public bus in Singapore is about
  - (1) 12 cm
  - (2) 12 m
  - (3) 120 cm
  - (4) 120 m
- 3. How many eighths are there in  $3\frac{1}{4}$ ?
  - (1) 13
  - (2) 24
  - (3) 25
  - (4) 26

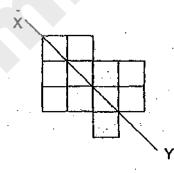
4. The table below shows the programme guide for Nickadoo Channel.

Time	Programme
11 00	Mick Cat
11 45	Nature Whisper
12 50	Anna and Elsa (Movie)
14 15	Bob Cat

Elvis watched Nature Whisper and Anna and Elsa (Movie). How long did he spend watching both shows?

- (1) 1h5 min.
- (2) 1 h 25 min
- (3) 1 h 50 min
- (4) 2 h 30 min

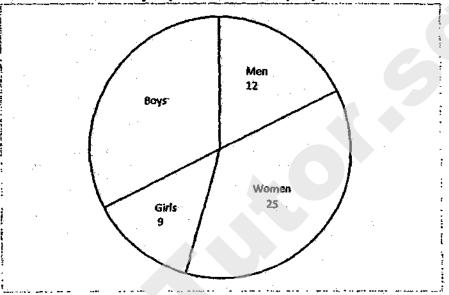
5. The figure below shows 11 squares. What is the smallest number of squares that must be added so that the line XY becomes a line of symmetry?



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

- Which of the following letters has both parallel and perpendicular lines? 6. (1) MX (2) AX (3) TX (4) H 7. The original price of a bag was \$120. Linda bought it at a discount of 20%. How much did Linda pay for the bag? (1) \$24 (2) \$96 (3) \$100 (4) \$144
- 8. Ali was facing north-west at first. He then turned 225° anti-clockwise. Which direction would he be facing in the end?
  - (1) North
  - (2) South
  - (3) East
  - (4) West

9. The pie chart shows the number of people at a party. Half of them are girls and women. How many boys are there at the party?



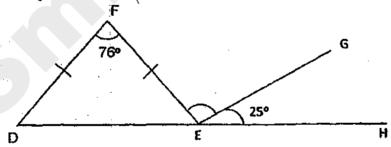
- (1) 16
- (2) 21
- (3) 22
- (4) 34

10. Razak read the timetable shown below for the train that leaves the MRT station for the airport.

Leaves MRT Station	Arrives at the airport
6,30 a.m.	7.15 a.m.
6.45 a.m.	7.30 a.m.
7.20 a.m.	8.05 a.m.
7.45 a.m.	8.30 a.m.
8.30 a.m.	9.15 a.m.

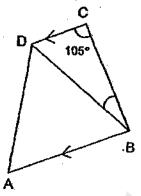
Razak wants to catch the latest train that will get him to the airport by 8.40 a.m. At what time does this train leave the MRT station?

- (1) 6.45 a.m.
- (2) 7.20 a.m.
- (3) 7.45 a.m.
- (4) 8.30 a.m.
- 11. In the figure below, DEF is an isosceles triangle. FD = FE. DEH is a straight line, ∠GEH = 25° and ∠DFE = 76°. Find ∠FEG.



- (1) 1049
- (2) 103°
- (3) 77°
- (4) 52°

12. In the figure below, ABCD is a trapezium and ABD is an equilateral triangle.∠BCD = 105°. Find ∠CBD.



- (1) 150
- (2) 45°
- (3) 60°
- (4) 750
- 13. The average mass of Alex, Ben and Charles is 49 kg. Alex is 9 kg heavier than Ben and 6 kg heavier than Charles. What is Charles' mass?
  - (1) 44 kg
  - (2) 45 kg
  - (3) 48 kg
  - (4) 50 kg

- James spent \$500 of his savings on Monday and  $\frac{2}{5}$  of his remaining savings on Tuesday. After that, he found that he had  $\frac{1}{3}$  of his original savings left. How much money did James spend on Tuesday?
  - (1) \$125
  - (2) \$250
  - (3) \$625
  - (4) \$1125
- 15. There is an equal number of stamps in Album A and Album B.
  The ratio of the number of local stamps to the number of foreign stamps in Album A is 3: 2. In Album B, <sup>4</sup>/<sub>15</sub> of the stamps are local stamps while the rest of the stamps are foreign stamps.
  What is the ratio of the total number of local stamps to the total number of
  - (1) 7:13

foreign stamps in both albums?

- (2) 13:7
- (3) 13:17
- (4) 17:13
- End of Booklet A -

# RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION

#### 2019

# **MATHEMATICS**

### **PRIMARY SIX**

Cla	ss : Primary 6 ()
Dat	e : 23 August 2019
Dur	ration: 60 min (Total time for Booklets A and B)
	PAPER 1 (BOOKLET B)
INSTR	UCTIONSTO CANDIDATES
1.	Write your Name, Register No. and Class in the space above.
2.	Do not turn over this page until you are told to do so.

## SUMMARY OF MARKS:

3. Follow all instructions carefully.

You, are not allowed to use a calculator.

Answer all questions.

			Questions	Marks Awarded	Maximum Marks
Paper	Booklet A	мсо	1 – 15		20
1	Booklet B	SAQ	16 – 30		25
Paper		SAQ	1-5		10
2		LAQ	6 - 17		45
		Total			100

· "	
Parent's Signature:	

	tions 16 to 20 carry 1 mark each. Write your answers in the spaces pro- uestions which require units, give your answers in the units stated. (5	
16.	Write down all the common multiples of 4 and 9 that are smaller than 80.	Do not write in this space
	Ans:	<del> </del>
17.	Express 2.66 kilometres in metres.	
		·
		ļ
		ļ 
	Ans:m	
18.	Express $\frac{6}{7}$ as a decimal. Round off your answer to 2 decimal places.	
•		

19.	The figure is formed by 3 straight lines. What is the value of ∠a.	Do not write in this space
	:	
	a	
	134°	
	121°	
	Ans:°	
		ls.
20.	The figure is made up of 5 identical squares. What percentage of the figure is <b>shaded</b> ?	
		ŀ
	Ans:%	

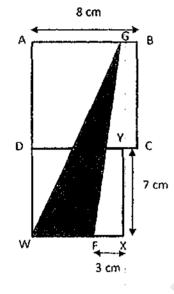
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Alico	1140 9110	i ali aliuwa	nce of \$3	50 a month. She spe	ent – of her	Do not write in this space
allow	ance each	month. Ho	w much di	d she spend each m	onth?	
				·		
	•					} }.
						<u>.</u> 
				Ans: \$		H
						}
			n = 50 am l		2 filled with	
				by 30 cm by 20 cm is here in the tank?	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>s</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	
				oy 30 cm by 20 cm is	<sup>2</sup> / <sub>5</sub> filled with	

litres

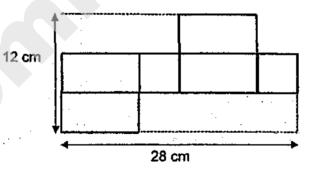
23. The figure below is made up of 2 squares, ABCD and DWXY. GWF is a triangle. Find the area of the <u>unshaded</u> parts of the figure.

Do not write in this space



Ans: cm²

24. The figure shows the net of a cuboid. The cuboid has a square base. Find the volume of the cuboid.

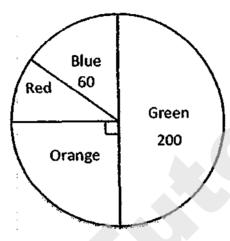


Ans: \_\_\_\_\_cm<sup>3</sup>

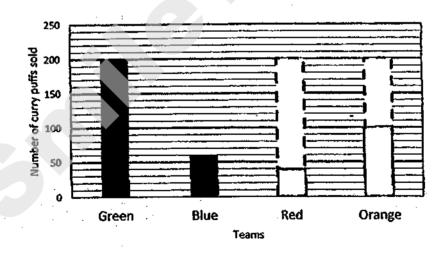
What is the sum of their age in 3 years' time?	in this spac
· · · · · · · · · · · · · · · · · · ·	i.
Ans:years old	
small rectangle?	
W X Y	
w x	
w x	
w x	
w x	
w x	
w x	
w x	
w x	
w x	
w x	

27. The pie chart below shows the number of curry puffs sold by 4 teams in a carnival. The Green team sold half of the total number of curry puffs.

Do not write in this space

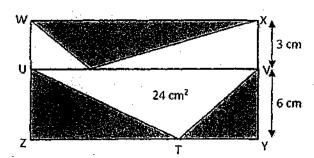


In the graph below, draw the bar to show the number of curry puffs sold by the Red and Orange teams.



28. The figure below shows a rectangle WXYZ which is divided into 2 rectangles, WXVU and UVYZ. XV is 3 cm and VY is 6 cm. The area of triangle UVT is 24 cm<sup>2</sup>. Find the total area of the shaded parts.

Do not write in this space



\ns: \_\_\_\_cm²

29. Gopal and Salim took part in their school's fund-raising walk. Gopal's average speed was 20 m/min faster than Salim. When Gopal completed the walk in 40 min, Salim had only walked  $\frac{3}{5}$  of the distance. Find Gopal's average speed for the walk.

Ans: \_\_\_\_\_\_m/min

30. In the figure, CDEF is a square. JKH is an equilateral triangle. Do not write in this space G is the midpoint of CF and JH is parallel to DE. ∠JGH = 140 °. Find ∠GHK. D G Ans:

End of Booklet B -

# RIVER VALLEY PRIMARY SCHOOL PRELIMINARY EXAMINATION 2019 MATHEMATICS PRIMARY SIX

Name	•	(
Class	: Primary 6 (	
Date	: 23 August 2019	
Duration	n: <u>1 h 30 min</u>	

### PAPER 2

## INSTRUCTIONS TO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are allowed to use a calculator.

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 in the units stated. (10 marks)

 5 students took part in a donation drive. The table below shows the amount of money collected by the students. The amount collected by Charlie and Denise was not shown.

Do not write in this space

Students	Ahmad	Bala	Charlie	Denise	Emma
Amount	\$250	\$180			\$200
collected					

The average amount of money collected by the 5 students was \$320. Charlie collected \$170 less than Denise. How much money did Charlie collect?

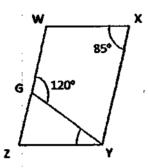
Ans: \$

2. There are 102 red and green flags hanging on a string. There are 3 green flags between any 2 red flags. What is the targest number of red flags on the string?

Ans: \_\_\_\_\_

In the figure, WXYZ is a parallelogram. GY is a straight line.
 ∠WXY = 85° and ∠WGY = 120°. Find ∠ZYG.

Do not write in this space



Ans: \_\_\_\_\_

4. The diameter of a circle is 14 cm. (Take  $\pi = \frac{22}{7}$ )

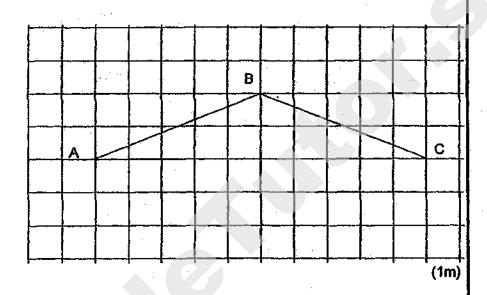
Based on the information above, put a tick in the correct box below.

	True	False	Not possible to tell
(a) The area of the circle is 154 cm².			
(b) When the diameter of the circle is doubled, the area of the new circle becomes 2 times the area of the original circle.			

5. In the square grid below, AB and BC are two sides of a rhombus | Do not write ABCD.

in this space

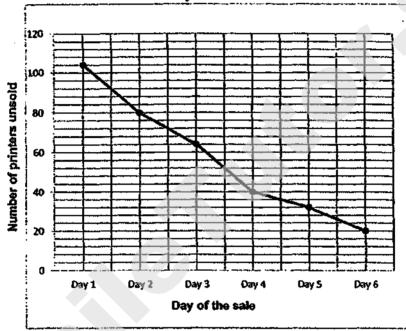
- (a) Complete and label the drawing of rhombus ABCD.
- (b) Measure and write down the size of ∠ABC.



Ans : (b)

For questions 6 to 17, 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. (45 marks)

 A company offered a total of 120 printers at a 25% discount over a 6-day sale. The line graph below shows the number of printers left unsold at the end of each day. Do not write in this space



During the sale, the discounted price of each printer was \$150. After the 6-day sale, the remaining printers were sold without any discount. What was the total amount of money collected from selling all the 120 printers?

Ans:	(3m)

7. The table shows the number of pies baked by 3 bakers.

Names	Number of Pies
Alice	p + 7
Ben	2p – 5
Cindy	р

- (a) Find the total number of pies baked by the three bakers. Express your answer in terms of p.
- (b) If p = 55, find the average number of pies baked by the three bakers

Ans: (a) \_\_\_\_\_(1m) (b) \_\_\_\_\_(2m)

Do not write in this space

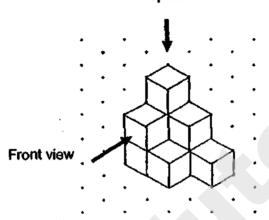
8. Jack and Jill started cycling from the same place in opposite directions along a straight path. Jill cycled at a speed of 9 km/h. Jack cycled at a speed 2 times that of Jill. How far apart were they after cycling for 45 minutes?

Ans: (3m)

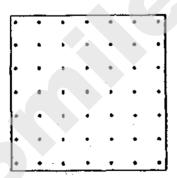
9. Bernard stacked 9 cubes and glued them together to form the solid below.

Do not write in this space

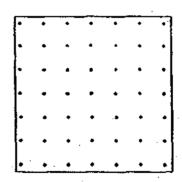
Top view



(a)Draw the front view and top view of the solid on the grid below. (2 marks)



Front view



Top view

(b)What is the minimum number of cubes Bernard has to add to the solid to make it into a bigger cube?

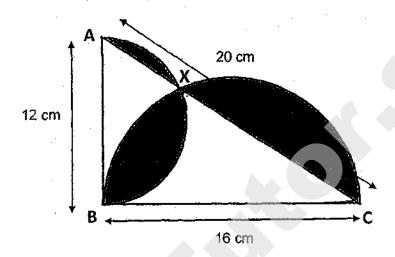
Ans:

6

(b)\_\_\_\_(1m)

10. The figure below is made up of two semi-circles and a right-angled triangle ABC. The diameter of the two semi-circles AB and BC are 12 cm and 16 cm respectively. The two semi-circles meet at X. AC is 20 cm. Find the area of the shaded area (Take  $\pi$  = 3.14)

Do not write in this space



Ans : \_\_\_\_\_\_\_(3m)

11. Mrs Lim baked some cupcakes. She sold  $\frac{1}{4}$  of them in the morning and  $\frac{3}{5}$  of them in the afternoon. She decided to bake another 252 cupcakes. The number of cupcakes she had in the end was  $\frac{3}{4}$  as many as the number of cupcakes she had at first. How many cupcakes did Mrs Lim have in the end?

Do not write in this space

Ans:\_\_\_\_ (3m)

Mrs Chandra bought  $\frac{4}{5}$  as many pears as apples and  $\frac{2}{5}$  as many mangoes as apples. She paid a total of \$150 for all the fruits. The ratio of the amount of money she spent on the apples to the amount she spent on the pears was 3:2. The ratio of the amount of money she spent on the mangoes was 1:5. The cost of each apple was \$0.60. Find the total number of fruits Mrs Chandra bought.

Do not write in this space

Ans :(4m)	
-----------	--

13. Li Ling had some \$2 notes and Anna had some \$5 notes. After Li Ling used  $\frac{1}{4}$  of her notes and Anna used  $\frac{2}{7}$  of her notes, they had the same number of notes left. If they had \$315 altogether in the end, how much money did Li Ling have at first?

Do not write in this space

Ans:\_\_\_\_\_\_(4m)

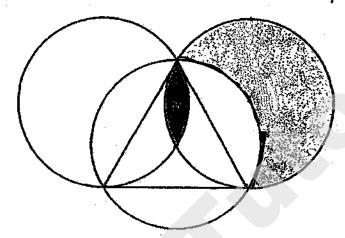
14.	250 boys and girls shared a sum of money. The average amount each child received was \$69.88. The average amount each boy received was \$55 and the average amount each girl received was \$85. How much more money did the girls receive than the boys?	Do not write in this space
		:
		·
C		

10.	as many erasers as notebooks. He spent a total of \$62.40 on these items. He spent \$9.60 more on the pencils than the notebooks and \$4.80 more on the notebooks than the erasers. Each notebook cost \$2.40 more than each eraser. How many pencils did Stanley buy?	in this space
	Ans :(5m)	

16. The figure below is made up of three identical overlapping circles and one equilateral triangle. Given that the area of the triangle is 63 cm² and the radius of each circle is 7cm.

Do not write in this space

- a) Find the perimeter of the shaded part A.
- b) Find the area of the shaded part B (Take  $\pi = \frac{22}{7}$ )



Ans: (a)\_\_\_\_\_\_(1m)

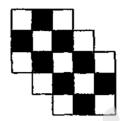
(b)\_\_\_\_\_(4m)

17. Bala uses shaded and unshaded squares to form figures that follow a \ Do not write pattern. The first three figures are shown below.

in this space







(a) The table below shows the number of unshaded square for each figure.

Complete the table for Figure 4 and Figure 5. (1 mark)

Figure Number	Number of shaded squares	Number of unshaded squares
. 1	4	5
2	6	8
3	8	11
4	10	
5	12	1

- (b) What is the difference in the number of unshaded squares Bala uses for Figure 11 and Figure 14?
- (c) Another figure in the pattern has 20 more unshaded than shaded squares. What is the total number of shaded and unshaded squares in that figure?

Ans:

(2m)

(2m)

SCHOOL :

RIVER VALLEY PRIMARY SCHOOL

LEVEL

PRIMARY 6

SUBJECT :

MATH

TERM

: 2019 PRELIM

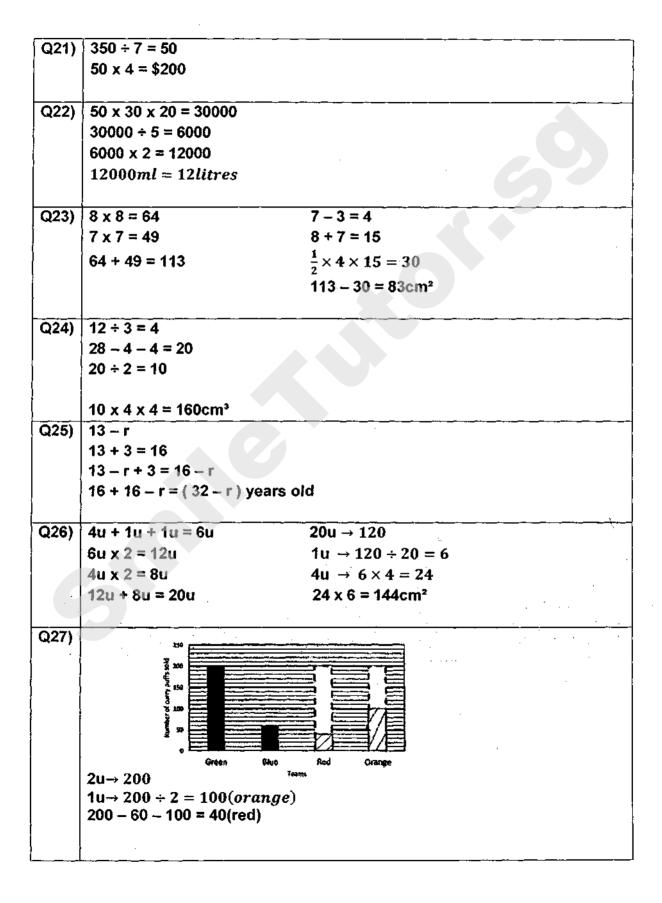
## PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	4	2	4	2	3	3	3

Q 11	Q12	Q13	Q14	Q15
2	1	3	2	3

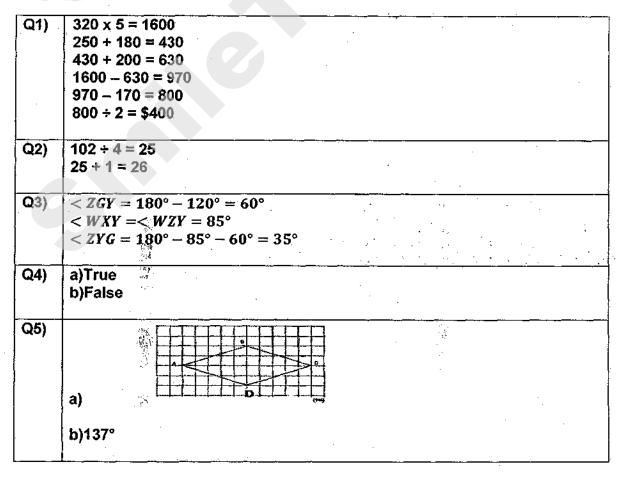
## PAPER 1 BOOKLET B

Q16)	36 , 72			
Q17)	2.66km = 2660m	м., ч.		
Q18) Q19)	0.86 180° - 134° = 46° 180° - 121° = 59°		· · · · · · · · · · · · · · · · · · ·	
Q20)	$180^{\circ} - 46^{\circ} - 59^{\circ} = 75^{\circ}$ $< a = 180^{\circ} - 75^{\circ} = 105^{\circ}$ 4u x 5 = 20u	:		
(42V)	$2u + 3ub + 2u + 2u = 9u$ $\frac{9}{20} \times 100\% = 45\%$			



Q28)	$\frac{1}{2} \times 6 \times ? = 24$	$\frac{1}{2} \times 3 \times 8 = 12$
	$\frac{1}{2} \times 6 = 3$	8 x 6 = 48
	$3 \times ? = 24$	48 – 24 = 24
	$24 \div 3 = 8$	24 + 12 = 36cm <sup>2</sup>
Q29)	20m/min x 40 = 800 800 ÷ 2 = 400 400 x 5 = 2000 2000 ÷ 40 = 50m/min	
Q30)		= 20°

## PAPER 2



000	400 00 400
Q6)	120 - 20 = 100
	100 x 150 = 15000
_	75% → 150
	$100\% \rightarrow \frac{150}{75} \times 100 = 200$
	200 x 20 = 4000
	4000 + 15000 = \$19000
Q7)	a)p+7+2p-5+p= 2p+p+p+7- 5
	= 4p+7-5
	= (4p+2)p
	b)55 x 4 = 220
	220 + 2 = 222
1	222 ÷ 3 = 74
ŧ	222 + 3 = 14
000	3
Q8)	$18km/h \times \frac{3}{4}h = 13.5km$
	$9km/h \times \frac{3}{4}h = 6.75km$
	13.5 + 6.75 = 20.25km
00)	
Q9)	a)
	• • • • • • • • • • • • • • • • • • •
	Front view Top Man
	Top view
	b)3 x 3 x 3 = 27
ļ	27 – 9 = 18
İ	
Q10)	2 14 4 5 4 5 1 - 5 5 5 7
,	$3.14 \times 6 \times 6 \times \frac{1}{2} = 56.52$
	$3.14 \times 8 \times 8 \times \frac{1}{2} = 100.48$
	100.48 + 56.52 = 157
	$\frac{1}{2} \times 12 \times 16 = 96$
	$157 - 96 = 61cm^2$

```
Q11)
        20u - 12u - 5u = 3u
        15u - 3u = 12u
        12u \rightarrow 252
        1u \rightarrow 252 \div 12 = 21
        21 \times 3 = 63
        252 + 63 = 315
Q12)
                      P : M
               3
                  : 2
                                                                5
        <u>X2</u>
                                                               5: 2
        10u + 2u + 3u = 15u
        15u \rightarrow 150
        1u \to 150 \div 15 = 10
                                                        5u + 4u + 2u = 11u
                                                         11 \times 10 = 110
        2u \rightarrow 10 \times 2 = 20
        3u \rightarrow 10 \times 3 = 30
        30 \div 0.60 = 50
        50 \div 5 = 10
Q13)
        15 \times 2 = 30
        15 \times 5 = 75
        75 + 30 = 105
        315 \div 105 = 3
        20 \times 3 = 60 (number of $2 notes)
        60 \times 2 = $120
Q14)
        10540 - 6930 = $3610
Q15)
       3u = 62.40 - 9.6 - 4.8 - 4.8 = 43.20
       1u = 43.20 \div 3 = 14.4 (TCE)
       TCN = 14.40 + 4.80 = 19.20
        3p = 14.40
       1p = 14.40 \div 3 = 4.80
       19.20 - 4.80 = 14.40 (big diff)
        14.40 \div 2.40 = 6
        6 \times 4 = 24
```

Q16) 
$$a^{22} \times 14 = 44$$

**b**)
$$\frac{22}{7} \times 7 \times 7 = 154$$

$$\frac{1}{2} \times 14 \times 7 = 49$$

Q16) 
$$a)\frac{22}{7} \times 14 = 44$$
  
 $b)\frac{22}{7} \times 7 \times 7 = 154$   
 $\frac{1}{2} \times 14 \times 7 = 49$   
 $(154 - 49) \div 3 = 35 = 9\frac{1}{3}$ cm<sup>2</sup>

Q17) a)

Figure Number	Number of shaded squares	Number of unshaded squares
1	4	5
2	6	8
3	8	11
4	10	14
5	12	. 17

b)9 c)62 + 42 = 104



## ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No
Class: Pr 6	
Date: 27 August 2019	Parent's Signature:
Total Time for Booklets A and B	1 hour
	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		

<sup>\*</sup> This booklet consists of 8 pages (including this 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.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

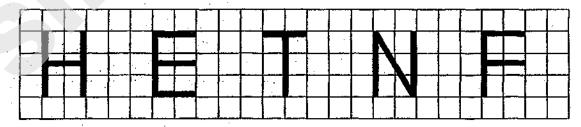
- 1. Round 263 547 to the nearest hundred.
  - (1) 260 000
  - (2) 263 500
  - (3) 263 550
  - (4) 264 000

2. 0 1 2 3 4 5 6 7 8 cm

What is the length of the pencil?

- (1) 5.4 cm
- (2) 5.8 cm
- (3) 6.4 cm
- (4) 6.8 cm

- 3. Find the value of  $\frac{5y+12}{6}$  when y = 6.
  - (1) 7
  - (2) 10
  - (3) 17
  - (4) 32
- 4. Troy took 2 h 15 min to bake a cake. He started baking at 11.35 a.m. What time did he finish baking?
  - (1) 1.00 p.m.
  - (2) 1.15 p.m.
  - (3) 1.35 p.m.
  - (4) 1.50 p.m.
- 5. How many letters below have both parallel and perpendicular lines?

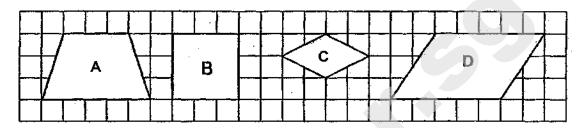


- (1) 5
- (2) 2
- (3) 3
- (4) 4

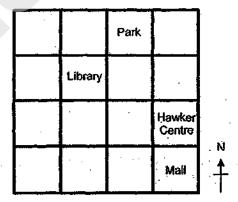
6. Karen is thinking of a quadrilateral.

Using the clues below, which of the following shapes, A, B, C, or D is Karen thinking of?

- Clue 1: It has two pairs of parallel sides.
- Clue 2: Not all angles are the same size.
- Clue 3: Not all sides are the same length.



- (1) A
- (2) B
- (3) C
- (4) D
- 7. The square grid below shows the plan of a town.



Which direction is the library from the mall?

- (1) North-east
- (2) South-west
- (3) North-west
- (4) South-east

- 8. A machine can print 80 cards in 3 minutes. At this rate, how many cards can it print in 1 hour?
  - (1) 240
  - (2) 1600
  - (3) 4800
  - (4) 14 400
- 9. The figure below shows a pyramid.



Which of the following is not a net of the pyramid?





(2)



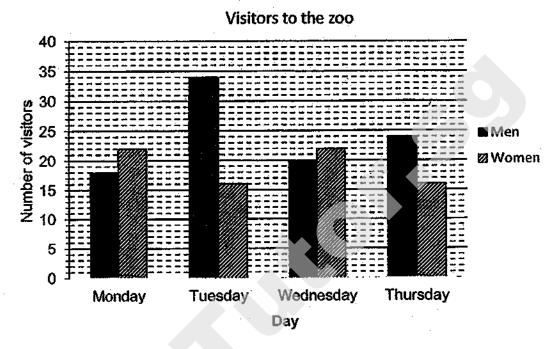
(3)



(4)



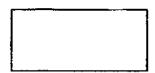
10. The graph shows the number of visitors at the zoo from Monday to Thursday. On which two days were there the same number of visitors at the zoo?



- (1) Monday and Tuesday
- (2) Monday and Thursday
- (3) Wednesday and Thursday
- (4) Tuesday and Thursday
- 11. Andrea had 24 more stamps than Bella. When Bella gave 18 stamps to Andrea, Andrea had 4 times as many stamps as Bella. How many stamps did Bella have at first?
  - (1) 14
  - (2) 20
  - (3) 32
  - (4) 38

- 12. An electronics store sold  $\frac{5}{8}$  of their television sets in the morning,  $\frac{1}{3}$  of the remaining television sets in the afternoon and the rest of the television sets in the evening. What fraction of the television sets were sold in the evening?
  - (1)  $\frac{1}{4}$
  - (2)  $\frac{2}{3}$
  - (3)  $\frac{1}{24}$
  - (4)  $\frac{5}{24}$
- 13. The equilateral triangle and the rectangle shown below have the same perimeter. The length of the rectangle is twice its breadth. The side of the triangle is 12 cm. What is the area of the rectangle?





- (1) 9 cm<sup>2</sup>
- (2) 24 cm<sup>2</sup>
- (3) 72 cm<sup>2</sup>
- (4) 81 cm<sup>2</sup>

- 14. John, Michael and Terry shared \$27.90 among themselves. Terry received 3 times as much money as Michael and John received twice as much money as Michael. How much money did John receive?
  - (1) \$3.10
  - (2) \$4.65
  - (3) \$6.20
  - (4) \$9.30
- 15. Claire bought a bottle containing 2.85 litres of washing detergent. She used 40 ml of washing detergent each day from Monday to Friday. On Saturday and Sunday, she used 50 ml of washing detergent each day. If Claire started using a new bottle on Tuesday, on which day would she use up all the washing detergent?
  - (1) Monday
  - (2) Tuesday
  - (3) Thursday
  - (4) Friday



## ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 1

Name:	Register No.
Class: Pr 6	Group:
Date: 27 August 2019	Parent's Signature:
Total Time for Booklets A and	d B : 1 hour

## **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. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

<sup>\*</sup> This booklet consists of 9 pages (including this cover page).

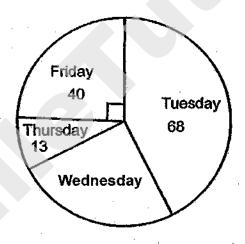
All di	lagrams in this paper are not drawn to scale unless stated otherwise. (5 marks)	in this space
16.	Find the value of 8.2 – 2.33.	
		·: -
	Ans:	
<del></del>	Express 6 minutes as a percentage of 2 hours.	•
•••		
	Ans:%	
18.	In the grid below, draw two straight lines to form a symmetric figure with	
	AB as the line of symmetry.	
	A	
·		
٠		
	<del> </del>	
		1
٠		
	(	i
	В	1

19.	A rectangular container measuring 10 cm by 20 cm by 37 cm is	i filled
	with water. Find the volume of water in the container.	•

Do not write in this space

_			Į
Ans: _		cm <sup>3</sup>	ı

20. The pie chart below shows the number of cakes sold at a shop from Tuesday to Friday.



The number of cakes sold from Tuesday to Friday is also represented by the table below. Find the number of cakes sold on Wednesday.

Day	Number of cakes sold
Tuesday	68
Wednesday	?
Thursday	13
Friday	40

Questions 21 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. Do not write For questions which require units, give your answers in the units stated.

in this space

All diagrams in thi	s paper are no	t drawn to sca	ile uniess s	stated otherwise.
,				(20 marks

21. Miss Teo gave her sudents some sweets. If she gave each student 4 sweets, there were 3 sweets left over. If she gave each student 6 sweets, she was short of 1 sweet. What was the smallest possible number of sweets that Miss Teo gave her students?

	i i
ns;	L

22. The table below shows the marks that Hayden scored for 4 subjects in the SA1 examinations.

Subject	Marks
English	72
Mathematics	65
Mother Tongue	?
Science	80

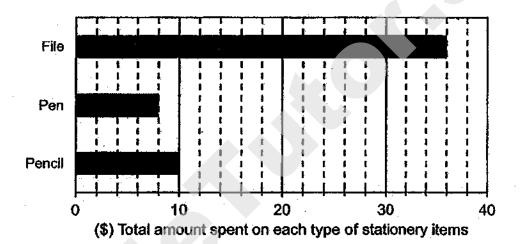
Hayden scored an average of 72 marks for the 4 subjects. How many marks did he score for his Mother Tongue?

Ans:	

23. Muthu bought 3 types of stationery items for his office. The prices are given in the table below.

Type of stationery item	Price per item
Pencil	\$0.50
Pen	\$2.00
File	\$4.00

The bar graph shows the total cost spent on each type of stationery items.



What is the total number of stationery items bought by Muthu?

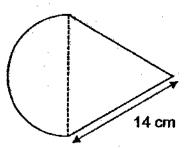
		11	
\ns:			

Do not write in this space

24. The figure below is made up of a semi-circle and an equilateral triangle.

Find the perimeter of the figure. Take  $\pi = \frac{22}{7}$ .





Ans: \_\_\_\_\_cn

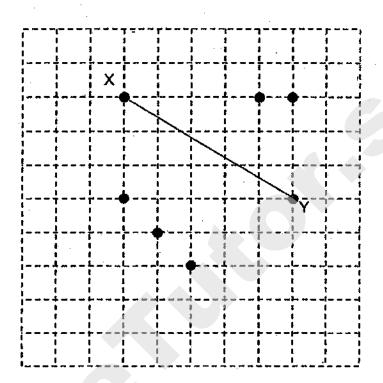
25. In a 100 m race, when Patrick reached the finishing point, he was 20 m ahead of Raj and 40 m ahead of Salim. All the boys did not change their speed throughout the race. How far had Salim run when Raj reached the finishing point?

Ans: \_\_\_\_\_ m

126. In the square grid below, XY is a straight line.

Draw an isosceles triangle XYZ using one of the given points as point Z.

Do not write in this space



27. A total of 77 people are standing in a queue for concert tickets. There are at least 3 women in between every 2 men. What is the largest possible number of men in the queue?

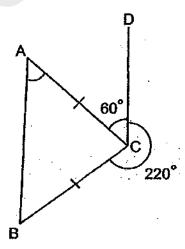
Ans: \_\_\_\_\_

28. Mdm Farah baked an equal number of cupcakes and cookies. After she sold 32 cupcakes and 20 cookies, the number of cupcakes left was  $\frac{4}{7}$  of the number of cookies left. How many cookies did she bake at first?

Do not write in this space

Ans:

29. In the figure, ABC is an isosceles triangle.  $\angle$ BCD = 220° and  $\angle$ ACD = 60°. Find  $\angle$ BAC.



Ans:

savings account. On Tuesday, both Alynna and Rachel start saving a fixed amount daily. Rachel saves \$2 more than Alynna each day. After 10 days Alynna has twice as much money as Rachel. How much does	Do not write in this space
Alynna save each day?	
	<u> </u>
	:

End of paper



# ROSYTH SCHOOL 2019 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6 PAPER 2

Name:	Register No.
Class: Pr 6	
Date: 27th August 2019	Parent's Signature:
Time: 1h 40mins	

### 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	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	·
Paper 2	55	
Total	100	

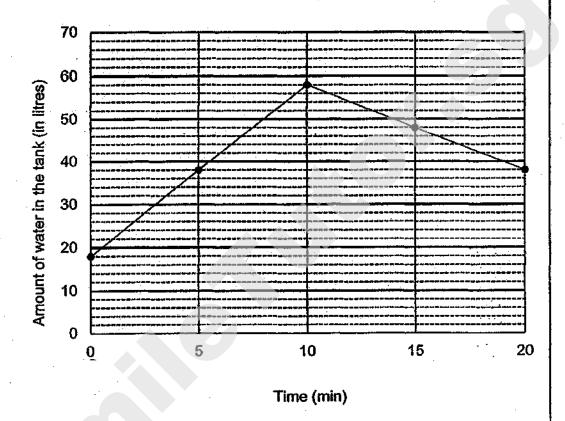
<sup>\*</sup> This booklet consists of 15 pages (including this cover page)

AII d	(10 marks) diagrams in this paper are not drawn to scale unless stated otherwise.	
ī.	Joel had 6p marbles. He had half as many marbles as Amanda. Amanda had 8 more marbles than Raju. How many marbles did they have altogether?	
	Ans:	

Ans: \_\_\_\_\_

3.	Two identical triangles overlapped each of equilateral triangles as shown below. The 78 cm <sup>2</sup> . Find the area of 1 unshaded equil	area of t	he shaded		Do not we in this spa
4.	In an examination hall, the tables were arra		such a wa		
	were 15 rows with 30 tables in each row or were removed from each row and the removed rearranged such that there were 33 tables	aining tat	oles were t		
	Statement	True	False	Not possible to tell	
	a) There were 442 tables left on Day 2.				
	b) There were 10 rows of tables on Day 2.				

5. A rectangular tank was filled with some water at first. Tap A was first turned on to add more water into the tank for 20 minutes. After 10 minutes, Tap B was then turned on to drain water out of the tank until the 20<sup>th</sup> minute. The line graph shows the volume of water in the tank over the period of 20 minutes. Do not write in this space



How many litres of water did Tap B drain out?

Ans: \_\_\_\_\_ ℓ

-	tions which require units, give your answers i		avioe	
All U	lagrams in this paper are not drawn to sca		o marks)	
6.	$\frac{1}{3}$ of Julie's money was equal to $\frac{3}{5}$ of Nancy Nancy \$42, both of them would have the samuch money did Nancy have at first?			
· ·				
			:	
-		Ans:	[3]	
7.	Andy had just enough ribbon to cut into 45: However, if he cut the ribbon into 37 pieces have 5.04 m of ribbon left. What was the left	shorter pieces of equal of equal	length.	
7.	However, if he cut the ribbon into 37 pieces	shorter pieces of equal of equal	length.	
7.	However, if he cut the ribbon into 37 pieces	shorter pieces of equal of equal	length.	
7.	However, if he cut the ribbon into 37 pieces	shorter pieces of equal of equal	length.	
7.	However, if he cut the ribbon into 37 pieces	shorter pieces of equal of equal	length.	

8. Tony wants to sell a laptop. The table shows the prices of the same laptop from his shop and Shop Y.

Do not write in this spac

Tony's	shop	Shop Y	
Original Price	% Discount	Original Price % Disco	
\$ 3 500	?	\$4 000	30%

Tony wants to price his laptop at the same selling price as Shop Y. How much percentage discount must be give to match Shop Y's selling price?

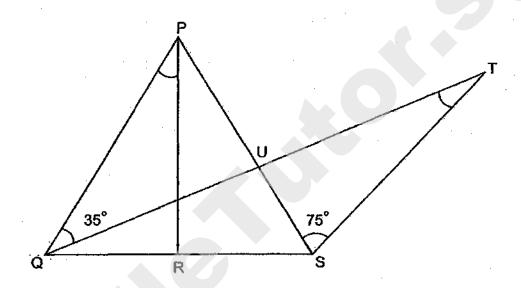
		ľ	
Ans:	[3]		

9.	Alfred left his house for Zain's house. Alfred wants to reach Zain's house at 6.00 p.m. If Alfred walks at a speed of 60 m/min, he will be 16 minutes late. If he jogs at a speed of 80 m/min, he will be 6 minutes late. What is the distance between Alfred's and Zain's house?	Do not writ in this spac
T 5.		
	Ans:[3]	

10. In the diagram below, PQS is an equilateral triangle. QT is a straight line.  $PR \perp QS$ ,  $\angle PQV = 35^{\circ}$  and  $\angle PST = 75^{\circ}$ . Find

Do not write in this space

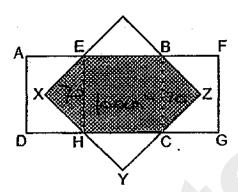
- (a) ∠QPR
- (b) ∠QTS



Ans: (a	)	[1]	ŀ
---------	---	-----	---

11. The figure consists of 2 identical rectangles, ABCD and EFGH, overlapping one another. EBCH is a square. The area of each rectangle is 280 cm². 40% of the whole figure is shaded. The unshaded area of the whole figure is 360 cm². What is the ratio of triangle EXH to the area of ADGF?

Do not write in this spac



Ans: \_\_ \_\_\_\_ [4]

12.	The number of visitors to a zoo was 152 880 in July. This was a 16%
	decrease from the number in June. The number of people who visited the
	zoo in August was a 20% increase from the number in July.

Do not write in this space

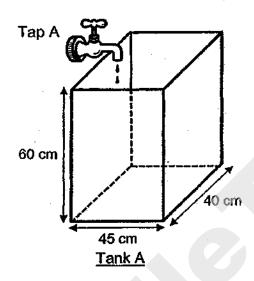
- (a) What was the total number of people who visited the zoo in June?
- (b) What was the percentage increase in the number of people who visited the zoo in August compared to June?

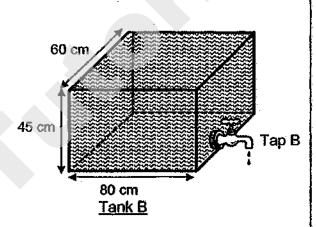
\ns: (a)	(2)	-
(b)	[2]	

13. The diagram below shows 2 tanks Tank A and Tank B of different dimensions. Tank A is completely empty while Tank B is filled with water to the brim.

Do not write in this spac

- (a) Find the volume of water in Tank B.
- (b) Water from Tap A flows at a rate of 2.7 litres per minute while water drains from Tap B at a rate of 2.4 litres per minute. Both taps are turned on at the same time. After some time, the height of the water level in both tanks becomes the same. Find the height of the water level at this point of time.



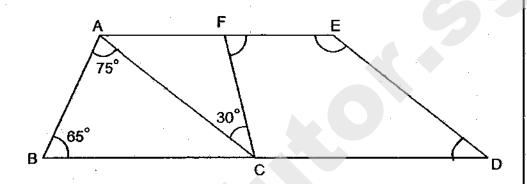


Ans: (a)	[1]
----------	-----

14. In the figure, ABDE is a trapezium and AC // ED. Find

Do not write in this space

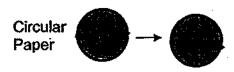
- (a) ∠CFE
- (b) ∠FED



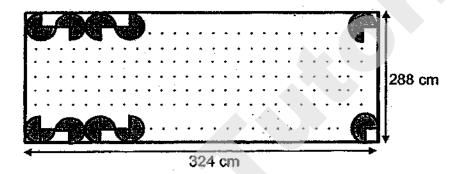
(b) \_\_\_\_ [2]

15. Mrs Raju wanted to decorate the bulletin board with some circular pieces of paper. The diameter of each circular paper was 12 cm. She cut all the circular pieces of paper into quadrants and decorated the entire bulletin board using all the quadrants, following the pattern shown below. There was no gap between each piece of quadrant.

Do not write in this space



How many pieces of circular paper did she use to decorate the bulletin board?



Ans: [4]

16. There were 200 more apples than pears at a fruit stall. After  $\frac{1}{4}$  of the apples and  $\frac{2}{7}$  of the pears were sold, there were 170 more apples than pears left.

Do not write in this space

- (a) How many apples were there at the fruit stall at first?
- (b) How many pears were left at the fruit stall in the end?

A	1-5			[7]
Ans:	(a)	 	 ·	[a]

17.	60% of the guests were children number of girls to the number of	for the guests during a birthday party.  Among the children, the ratio of the boys is 5:3. A total of 9 408 fishballs lt got 5 fishballs and each child got 6 ls left after the party.	Do not wri in this spa
	<ul> <li>a) What was the ratio of the nur number of fishballs the childr</li> <li>Give your answer in the simp</li> </ul>		
	b) How many boys attended the	e party?	
		·	
		Ans: (a)[3	1
	•	(b)[2	

End of Paper

SCHOOL:

**ROSYTH PRIMARY SCHOOL** 

LEVEL

PRIMARY 6

SUBJECT:

MATH

TERM

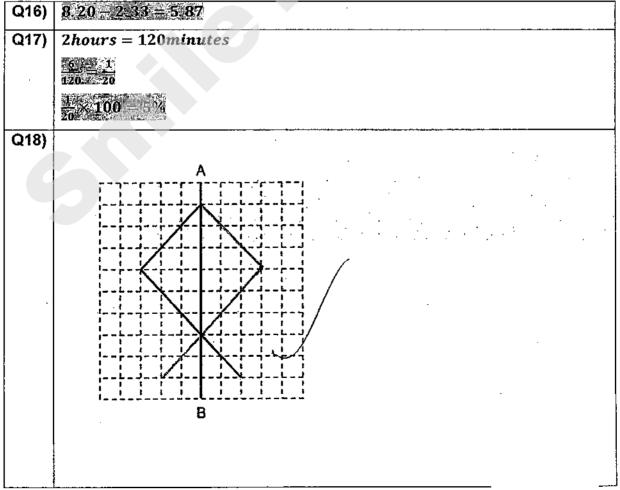
**2019 PRELIM** 

### PAPER 1 BOOKLET A

	Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
ĺ	2	2	1	4	3	4	3	2	3	2

Q 11	Q12	Q13	Q14	Q15
4	1	3	4	4

## **PAPER 1 BOOKLET B**



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Q19)	$20 \div 4 = 5$
	$10\times 5\times 37 = 1850cm^3$
Q20)	39
Q21)	6 - 4 = 2
-	3 + 1 = 4
	4 ÷ 2 = 2
	2 x 4 = 8
	8 + 3 = 11 sweets
Q22)	72 x 4 = 288
	288 – 72 = 216
	216 – 65 = 151
	151 — 80 = 71 marks
Q23)	
	8 ÷ 2 = 4
	10 ÷ 0.50 = 20
	9 + 4 + 20 = 33
Q24)	$\frac{1}{2}x \frac{22}{7}x 14 = \frac{22}{7}x 7 = 22$ 22 + 14 + 14 = 22 + 28 = 50 cm
Q25)	100 - 20 = 80 (Raj)80 : 60 $100 - 40 = 60(Salim)$ $100 : 75m$ 4 : 3
Q26)	
	<u> </u>
•	
!	
į	
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· .

Q27)	77 ÷ 4 = 19	R1	
İ	19 x 1 = 19	)	
	19 + 1 = 20	) men	
Q28)	4U + 32 =	7U+20	· · · · · · · · · · · · · · · · · · ·
	3U = 32 -	20 = 12	
	$1U = 12 \div$	3 = 4	
ļ	$7U = 7 \times 4$	= 28	
[ 	28 + 20 =	48cookies	
Q29)	220° + 60°	= 280°	
ł	360° - 280		
	180° – 80°		
1	$100^{\circ} \div 2 =$	50°	
Q30)	Alynna	Rachel	
	90	10	10U+90=(10U+30)x2
	10U	10U+20	=10U+90=20U+60
		•	=10U=90-60=30
[			1U=30÷10=\$3

#### PAPER 2

Q1)	Joel6p Amanda12p Raju 12p - 8 6p + 12p + 12p - 8 = (30p - 8)	marbles		
Q2)	25u = 325 1u = 325 ÷ 25 = 13 5u = 13 x 5 = 65 sweets			
Q3)	6u = 78 1u = 78 ÷ 6 = 13 cm <sup>2</sup>		· · · · · · · · · · · · · · · · · · ·	
Q4)	a)False b)True			
Q5)	38 - 18 = 20 5 mins 20 10 mins 20 x 2 = 40 58 + 40 = 98 98 - 38 = 60L			

Q6)	$\frac{1}{3}J = \frac{3}{5}N$
1	l .
1	$\frac{3}{9}J = \frac{3}{5}N$
ì	9 5
	42 x 2 = 84
	9u - 5u = 4u
İ	4u = 84
ĺ	1u = 84 ÷ 4 = 21
,	5u = 21 x 5 = \$105
Q7)	45 – 37 = 8
,	8 pieces →5.04m
	1 piece →5.04m ÷ 8 = 0.63m
l	45 pieces →0.63m x 45 = 28.35m
Q8)	$\frac{7}{10}$ x 4000 = 2800
	10
	2500 2900 = 700
	3500 - 2800 = 700
	$\frac{700}{3500}$ x 100% = 20%
ļ	
Q9)	60u + 600 = 80u
ĺ	20u = 600
	1u = 600 ÷ 20 = 30
	$30 \times 80 = 2400 m$
Q10)	a) <tqs -="" 35°="25°&lt;/th" 60°="" ==""></tqs>
- /	<qvr -="" 25°="65°&lt;/th" 90°="" ==""></qvr>
	<pvq (360°="" -="" 2="115°&lt;/th" 65°="" 65°)="" =="" ÷=""></pvq>
1 : :	<qpr -="" 115°="30°&lt;/th" 180°="" 35°="" ==""></qpr>
	b) <qts -="" 180°="" 25°="" 60°="" 75°="20°&lt;/th" ==""></qts>
0441	COM > 204
Q11)	60% -→324
	10% -→324 ÷ 6 = 54 100% →54 x 10 = 540
	40% →54 x 4 = 216
	216 ÷ 6 = 36
	36 x 4 = 144
·	144 + 324 = 468
	36 : 468 ≈ 1 : 13
Q12)	a)84% →152880
٠.٠٠)	
	1% →152880 ÷ 84 = 1820 Need a home tutor? Visit smiletutor.sg

Γ	4000/ >4000 - 400 - 400000 /	
	100% →1820 x 100 = 182000 (J	lune)
	$b)_{10}^{12}$ x 152880 = 183456 (August)	
,	183456 – 182000 = 1456	•
	$\frac{1456}{182000} \times 100\% = 0.8\%$	
	182000	
Q13)	a)80 x 60 x 45 = 216000	
	b)33 <sup>3</sup> / <sub>4</sub>	
<b>\</b> }	Tank A TankB	
	Base = 45x40 = 1800	80x60 = 4800
	$Rate = \frac{2700}{1800} = \frac{3}{2} \frac{2400}{4800} = \frac{1}{2}$	00000
· ·		
ŀ	$\frac{3}{2}t = 45 - \frac{1}{2}t$	
ſ	2t = 45	
-	t=22.5	
	$height = \frac{3}{2}t = \frac{3}{2}(22.5)$	
	$= 33.75(33\frac{3}{4})$	
	4	
Q14)	a) $<$ ACB = $180^{\circ} - 75^{\circ} - 65^{\circ} = 40^{\circ}$	
	$<$ FAC = $180^{\circ} - 65^{\circ} - 75^{\circ} = 40^{\circ}$	
	$<$ AFC = $180^{\circ} - 40^{\circ} - 30^{\circ} = 110^{\circ}$	
'	<cfe -="" 110°="70°&lt;/th" 180°="" ==""><th></th></cfe>	
	b) <fed -="" 180°="" 40°="140°&lt;/th" ==""><th></th></fed>	
Q15)	288 ÷ 12 = 24 324 ÷ 12 = 27	
	$27 \times 24 = 648$	
	648 ÷ 4 x 3 = 486pieces	
Q16)	a)760	o)400
	3	5 :
	A= u+200 $\xrightarrow{3}$ y+170	$\frac{5}{7} \times 560 = 400$
	$P=u \longrightarrow \frac{5}{7}y$	
	•	
	$\frac{3}{4}(u+200)=y+170$	•
	$\frac{5}{7}u = y$	
	,	
<u> </u>	$\frac{3}{4}u + 150 = \frac{5}{7}u + 170$	
	$\frac{1}{28}u=20$	
. :	u = 560 + 260 = 760	Need a home tutor? Visit smiletutor sg
L		<u> </u>

Q17) a) 5:9 b)378boys

C: A
A: C: T
18: 10
5: 9: 14 x 672
9: 5
3360 6048 9408  $3360 \div 5 = 672 (A)$   $6048 \div 6 = 1008 (C)$  1008 = 5G 3B  $1008 \div 8 \times 3 = 378$ 

i	AT	/ GAL/	WSW/	EC .
Index No.				]-[]

### SINGAPORE CHINESE GIRLS' SCHOOL

#### PRELIMINARY EXAMINATION 2019

PRIMARY 6

MATHEMATICS PAPER 1

**BOOKLET A** 

Name : \_\_\_\_\_\_(`)

Class: Primary 6 SY / C / G / SE / P

20 August 2019

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B	]	25
Paper 2			55
Total Marks			100

Parent's Signature

15 Questions 20 Marks

Total Time for Booklets A and B: 1 h

## **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

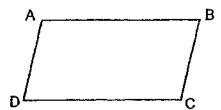
## **Booklet A**

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) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1. What does the digit 3 in 4.362 stand for?
  - (1) 3 ones
  - (2) 3 tenths
  - (3) 3 hundredths
  - (4) 3 thousandths
- 2. Express 10.85 km in metres.
  - (1) 108.5 m
  - (2) 1085 m
  - (3) 10 850 m
  - (4) 108 500 m
- 3. Which of the following, when rounded off to the nearest thousands, is not 27 000?
  - (1) 26 749
  - (2) 26 952
  - (3) 27 308
  - (4) 27 514
- 4. Which of the following statements is true about the parallelogram ABCD?

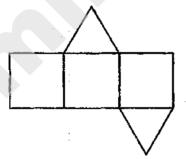
1

- (1)  $\angle DAB + \angle BCD = 180^{\circ}$
- (2) AD is perpendicular to BC.
- (3) \_ A parallelogram has a line of symmetry
- (4)  $\angle ABC = \angle ADC$ .

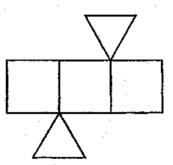


- 5. Which of the following fractions has the smallest value?
  - (1)  $\frac{5}{11}$
  - (2)  $\frac{4}{7}$
  - (3)  $\frac{1}{2}$
  - (4)  $\frac{7}{9}$
- 6. Find the value of  $55 + \frac{5}{100} + \frac{5}{1000}$ .
  - (1) 55.505
  - (2) 55.55
  - (3) 55.05
  - (4) 55.055
- 7. Which of the following is not a net of a prism?

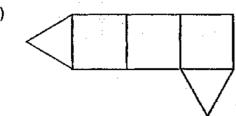
(1)



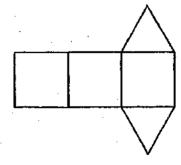
(2)



(3)



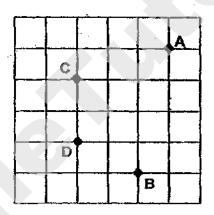
(4)



- 8. Which of the following letters has only one line of symmetry?
  - (1) E
  - (2) H
  - (3) O
  - (4) X
- H
- O



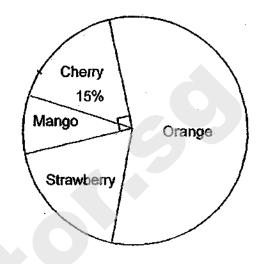
- 9. In the square grid below, A, B, C and D represent four landmarks in a town. In which direction is C from D?
  - (1) N --
  - (2) W
  - (3) NW
  - (4) SE



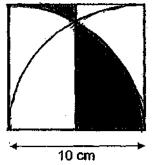


- 10. Nurul saved a total of \$3.00 in three days, Each day, she saved 30 cents more than the previous day. How much did she save on the second day?
  - (1) \$1.00
  - (2) \$0.70
  - (3) \$1.10
  - (4) \$0.80

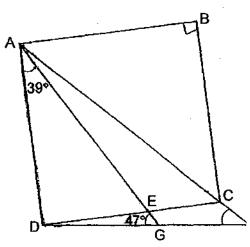
- 11. The pie chart shows the favourite fruit of a group of children. 150 children like cherry and mango. How many more children prefer cherry to mango?
  - (1) 90
  - (2) 60
  - (3) 30
  - (4) 15



- 12. The figure below is made up of two identical quadrants and a square. What is the perimeter of the shaded part?
  - (1)  $(5\pi + 10)$  cm
  - (2)  $(5\pi + 20)$  cm
  - (3)  $(20\pi + 10)$  cm
  - (4)  $(20\pi + 20)$  cm



- In the figure below, ABCD is a square. ∠DAE = 39° and ∠AGD = 47°.
   Find ∠AFD.
  - (1) 41°
  - (2) 45°
  - (3) 47°
  - (4) 51°



14. The table below shows the NAPFA test Awards of a group of students.

Award	Number of students	
Gold	80	
Silver	70	
Bronze	40	
Nil	?	

- $\frac{3}{4}$  of the students achieved at least a Silver award in the NAPFA test. How many students did not achieve any award?
- (1) 10
- (2) 30
- (3) 40
- (4) 50
- A cyclist took  $\frac{3}{10}$  h to cycle from his home to the park, 12 km away. When he left the park, he cycled along the same route and took 30 min to reach home. What was his average speed for the whole journey to and fro?
  - (1) 15 km/h
  - (2) 30 km/h
  - (3) 48 km/h
  - (4) 64 km/h

Index No.						_	
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### SINGAPORE CHINESE GIRLS' SCHOOL

## **PRELIMINARY EXAMINATION 2019**

**PRIMARY 6** 

## MATHEMATICS PAPER 1

**BOOKLET B** 

Name: \_\_\_\_\_( )

Class: Primary 6 SY / C / G / SE / P

20 August 2019

Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions

25 Marks

Total Time for Booklets A and B: 1 h

## **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

## **Booklet B**

Do not write in this cokunn

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

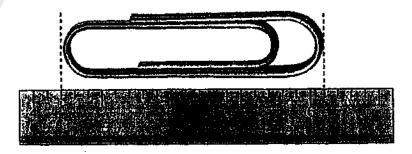
16. Evaluate  $\frac{2}{3} \times (48 - 30) + 28 \div 4$ 

Ans: \_\_\_\_\_

17. Find the value of  $\frac{5}{6} \div 10$ .

Ans: \_\_\_\_\_

18. What is the length of the paper clip?



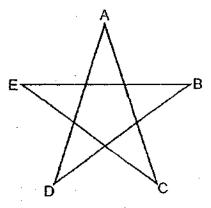
Ans: \_\_\_\_\_ cm

19. Express 0.429 as a percentage.

Do not write in this column

Ans: \_\_\_\_\_ %

20. Brandon used a piece of 68-cm wire to fold into a star, such that AC = CE = EB = BD = DA. What is the length of AC?



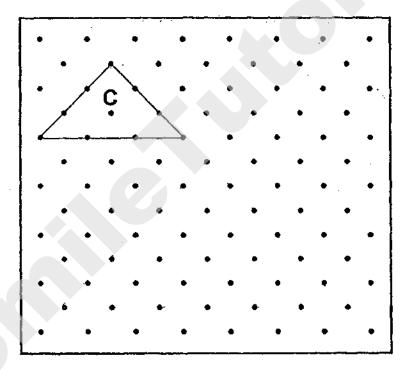
Ans: cm

Questions 21 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. (20 marks)

Do not write in this column

- 21. A triangle C is drawn by joining dots on the square grid with three straight lines.
  - (a) In the same way, draw another triangle with twice the perimeter of C on the square grid. Label this triangle D.
  - (b) What is the ratio of the area of C to the area of D?

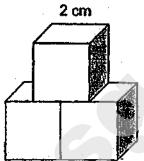


Ans: b)		
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22. The figure below is made up of three 2-cm cubes. Find the total surface area of the figure.

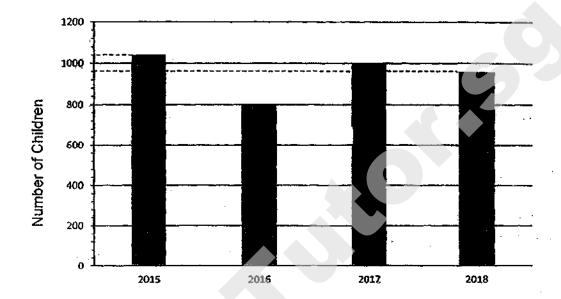
Do not write in this column



Ans: \_\_\_ cm<sup>2</sup>

Peggy saved  $\frac{2}{7}$  of her salary and Gary saved  $\frac{4}{9}$  of his salary. If they saved the same amount of money, what is the ratio of Peggy's salary to Gary's salary?

The graph below shows the number of children who participated in an art competition in the respective years.



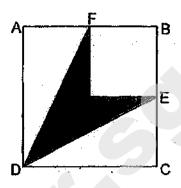
24. What is the percentage increase in the number of participants between the years 2016 and 2017?

Ans: \_\_\_\_\_\_\_%

25. What is the average number of students who participated in the competition?

26. ABCD is a square with an area of 108 cm<sup>2</sup>. E is the midpoint of BC and F is the midpoint of AB. Find the shaded area.

Do not write in this column



Ans: \_\_\_\_\_ cm<sup>2</sup>

27. Sandra is *p* years old. Jay is 3 years older than her and 5 years younger than Erin. What is the total age of the three children?

28. The table below shows the number of hours that a group of 20 children spent on screen time in a day.

Do not write in this column

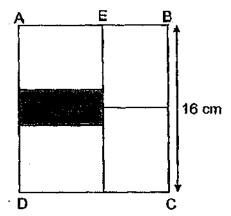
Number of hours spent	0	2	3	4
Number of children	2	7	8	3

What is the average number of hours spent on screen time each day?

Ans:	hours
	110010

29. The following figure is made up of 4 identical rectangles and a shaded rectangle. The length of BC is 16 cm. If the area of the shaded part is

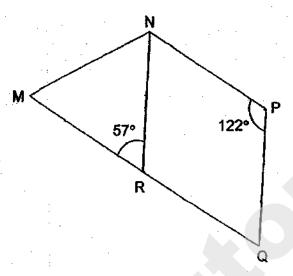
24 cm², what is the length of EB?



Ans:			cm

30. The figure below is not drawn to scale. It is made up of an isosceles triangle and a rhombus.  $\angle$ MRN = 57° and  $\angle$ NPQ = 122°.

Do not write in this column



Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\checkmark$ ) to indicate your answer.

Statement	True	False	Not possible to tell
The lines MR and RN are equal in length.			
The figure MNPQR is a trapezium.			

End of Booklet B

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## SINGAPORE CHINESE GIRLS' SCHOOL

## **PRELIMINARY EXAMINATION 2019**

**PRIMARY 6** 

**MATHEMATICS** 

PAPER 2

Name:	_		1
maille.		1	

Class: Primary 6 SY / C / G / SE / P

20 August 2019

	. Mark	Max Mark
Paper 2		55

 Parent's	Signature	
 - · · - · ·		

17 Questions 55 Marks

Total Time for Paper 2: 1 h 30 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 spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this column

Peter wanted to buy a bag but he only had  $\frac{1}{5}$  of the money. After receiving \$12

from his father, he was still short of  $\frac{1}{2}$  of the money. What is the price of the bag?

Ans: \$ \_\_\_\_\_

Alan, Ben and Carol had 18, 27 and 106 marbles respectively. Each of them bought an equal number of marbles, after which Carol had as many marbles as the total number that Alan and Ben had. How many marbles did each child buy?

Roger saves \$y on Monday. Every day, he increases the amount saved by 100%.
 Find the total amount saved from Monday to Wednesday.

Do not write in this column

Ans: \$

A tin of paint weighed 10.5 kg when it was  $\frac{1}{2}$  full. When it was  $\frac{1}{3}$  full, it weighed 7.5 kg. What was the mass of the tin when it was empty?

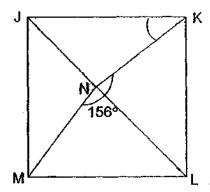
kg

5. Mr Wong gave away 236 apples to a group of people. There were 10 more children than adults who received the apples. Each child received 2 apples while each adult received 4. How many adults received the apples? Oo not write in this column

6. A notebook cost \$2. For every 4 notebooks bought, 1 was given free. Hoping to enjoy the promotion, Jane wanted to buy 18 notebooks but is short of \$3. How much money does she have?

\ns:				[3]
·, ,	 _		 	[~]

7. In the figure, JKLM is a square, ∠MNK = 156°. Find ∠JKN.



Ans:	ខោ
1113.	 [~]

8. Town P and Town Q are 221 km apart. Laura left Town P for Town Q at 10.00 a.m., travelling at an average speed of 81 km/h. Mandy left Town Q for Town P at 11.00 a.m., travelling at an average speed of 94 km/h.

What was the distance travelled by Laura when she passed Mandy?

Do not write in this column

Ans: \_\_\_\_\_[3]

9. The figure below is made up of two semi-circles and two isosceles triangles. The diameter of the smaller semi-circle is 10 cm while the diameter of the bigger semi-circle is 15 cm.

Do not write in this column

Taking  $\pi$  = 3.14, find the area of the shaded part.



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

10. Figure A shows a sealed container partially filled with 48 cm³ of water.
The container is then placed lying on its back as shown in Figure B.
What is the height of the water level in Figure B?

Do not write in this column

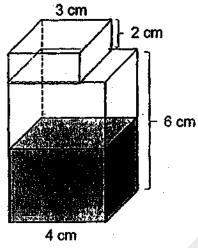


Figure A

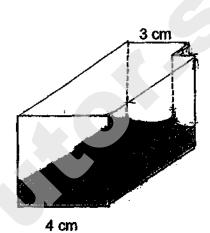


Figure B

Ans: \_\_\_\_\_[3]

Mrs Teo paid \$122.40, after 15% discount, for petrol purchase at a petrol station.
 Petrol price before discount was \$2.25 per litre.

Do not write in this column

- (a) How many litres of petrol did Mrs Teo purchase?
- (b) -Mrs Teo's car can travel 15.8 km with every litre of petrol. With the amount of petrol that she had purchased, what is the maximum distance that her car can travel?

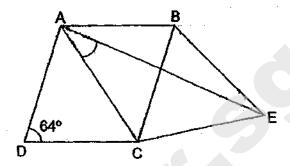
Ans: a)[	2	•	1	
----------	---	---	---	--

b)	<b>f2</b>
~,	 F



12. The figure below is not drawn to scale. ABCD is a rhombus and BCE is an equilateral triangle. ∠ADC = 64°. Find ∠CAE.

Do not write is this column



Ans: [4]

13. Pauline had some money. She spent  $\frac{1}{4}$  of it on a book and received another \$33 from her mother. With what she had left, she spent 60% of it on a bag and had \$24 left. How much money did Pauline have at first?

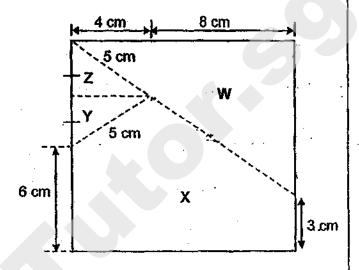
Do not write in this column

Ans: \_\_\_\_\_[4]

14. A piece of square paper of sides 12 cm is cut into 4 parts W, X, Y and Z along the dotted lines as shown below. The 4 pieces of cutouts can be rearranged to form a rectangle by shifting Z and W.

Do not write is this column

- (a) What is the area of the rectangle?
- (b) Find the perimeter of the rectangle that is formed.



Ans: a) \_\_\_\_\_[2]

b) \_\_\_\_\_[2]

15. The table shows the overseas postage rate for bulky items.

Destinations	1st 5kg	Additional kg or part thereof
Australia	\$40	\$7
Europe	\$50	\$9
Korea	\$30	\$5

Do not write in this column

Timothy sent a parcel to each of his friends in Australia, Europe and Korea as shown below. Timothy paid a total of \$146 for the postage of the three parcels. He paid \$16 more for the postage to Australia than to Korea.

What was the additional mass that Timothy was charged for the postage to

Australia?



To Europe Parcel weighs less than 5 kg



To Korea Parcel weighs more than 5 kg



To Australia Parcel weighs more than 5 kg

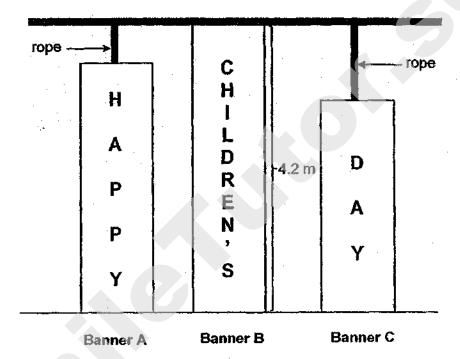
 [4]	
	[4

16. The diagram shows three banners hung from a beam to the floor. The total length of the three banners is 8.7 m. Banner B is 4.2 m long.

Do not write this column

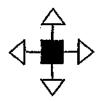
Banner A and Banner C are each extended with a rope, after which each extended banner reaches the floor like Banner B. The longer rope is twice the length of the shorter rope.

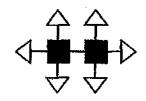
What is the length of Banner C?

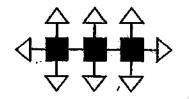


Ans: \_\_\_\_\_[5]

17. Study the pattern carefully and answer the questions that follow.







Pattern 1

Pattern 2

Pattern 3

Pattern number	1	2	3		25
Number of triangles	4	6	8	•••	
Number of straight lines	4	7	10	* * *	22.

(a) How many triangles are needed to form Pattern 25?

(b) Which pattern is made up of 217 straight lines?

(c) What is the total number of triangles and squares needed to form Pattern 48?

Ans: a) \_\_\_\_\_[1

b) \_\_\_\_\_[2]

c) \_\_\_\_\_[2]

5

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SCHOOL: SCGS PRIMARY SCHOOL

LEVEL : PRIMARY 6
SUBJECT : MATH

TERM: 2019 PRELIM

## **PAPER 1 BOOKLET A**

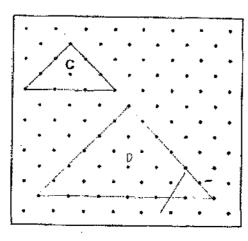
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8.	Q9	Q10
2	3	4	4	1	4	3	1	3	1

Q 11	Q12	Q13	Q14	Q15
3	2	1	1	2 .

## **PAPER 1 BOOKLET B**

Q16) 
$$\begin{vmatrix} \frac{2}{3} \times 18 + 28 \div 4 \\ = \frac{2}{3} \times 18 + 7 \\ = 12 + 7 = 19 \end{vmatrix}$$

Q17) 
$$\frac{5}{6} \div 10 = \frac{5}{6} \times \frac{1}{10} = \frac{1}{12}$$



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	b) C : D
	4.5 : 18
}	= 1 : 4
Q22)	8+1+5=14
	$14 \times 4 = 56cm^2$
Q23)	$\frac{2}{7} \times 2 = \frac{4}{14}$ P: G
000	14: 9
Q24)	1000 - 800 = 200
	$\frac{200}{800} \times 100 = 25\%$
Q25)	1040 + 1000 + 960 + 800 = 3800
	$3800 \div 4 = 950$
Q26)	$108 \div 4 = 27$
	108 - 27 = 81
	$108 \div 2 = 54$
	$81 - 54 = 27cm^2$
Q27)	(PX3)+3+3+5=3P+11
Q28)	$(7\times2)+(8\times3)+(3\times4)$
	= 14 + 24 + 12
	$= 50 \div 20 = 2.5 = 2\frac{1}{2} \text{ HOURS}$
Q29)	$16 \div 2 = 8$
	$24 \div 8 = 3$
	$(16-3) \div 2 = 6.5cm$
Q30)	
L	

## PAPER 2

Q1)	$5-2=33u \rightarrow 121u \rightarrow 12 ÷ 3 = 44x (5x2) = 40$	
Q2)	18 + 27 = 45 2u + 45 = 1u + 106 1u→106 - 45 = 61	
Q3)	\$y x 2 = \$2y \$2y x 2 = \$4y \$4y + \$2y + \$y = \$7y	
Q4)	½ →10.5kg	Need a home tutor? Visit smiletutor.sg

f	11	
	$\left \frac{1}{3}\right> 7.5$ kg	
[	7.5kg x 3 = 22.5kg	<b>'</b> .
	10.5kg x 2 = 21kg	
	22.5kg – 21kg = 1.5kg	
Q5)	Diff→10 x 2 = 20	
	256 - 20 = 216	
	sets→ 216 ÷ (4+2) = 36	
	Adults→36 x 1 = 36	
Q6)	5nb→\$2 x 4 = \$8	
αο, .	5 x 3 = 15nb	
	8 x 3 = 24	
	18 - 1 5 = 3	
	3 x 2 = 6	
	18nb→24 + 6 = 30	
·	30 - 3 = \$27	
Q7)	204° ÷ 2 = 102°	
	180° – 102° – 45° = 33°	
Q8)	11 – 10 = 1	
ασ,	81 x 1 = 81	
	221 – 81 = 140	
	81 + 94 = 175	
	•	
	$140 \div 175 = \frac{4}{5}$	
	3	
	4	·
	$\frac{4}{5}$ x 81 = 64.8	
	64.8 + 81 = 145.8	
Q9)	½ x 15 x 7.5 – ½ x 3.14 x 5 x 5	
	= 56.25 - 39.25 = 17cm <sup>2</sup>	
	Total shaded→17 + ( ½ x 10 x 5)	·
	= 17 + 25 = 42cm <sup>2</sup>	
Q10)	48 ÷ 6 ÷ 4 = 2	·
¬·•;	(3x2) + (6x4) = 30	
	48 ÷ 30 = 1.6cm	
	40 ± 30 = 1.00m	
Q11)	a) $\frac{85}{100}$ x 2.25 = 1.9125	· , · · · · · · · · · · · · · · · · · ·
	100	
	122.40 ÷ 1.9125 = 64L	
	b)64 x 15.8 = 1011.2km	Need a home tutor? Visit smiletutor.sg
		Tion a fine tator. Viole offinotator.og

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<u> </u>	
Q12)	$(180^{\circ} - 64^{\circ}) \div 2 = 58^{\circ}$
ĺ	180° - 64° 60° = 56°
	56° ÷ 2 = 28°
	58° – 28° = 30°
Q13)	$(24 \div 2) \times 5 = 60$
	$(60-33) \div 3 = 9$
	9 x 4 = \$36
Q14)	a)12 x 12 = 144 cm <sup>2</sup>
	b)3+6+3+6+16+16 = 50cm
Q15)	146 - 40 - 50 - 30 = 26 21+5=26
	7(x) - 5 = 16
;	7x = 21
	$X = \frac{21}{7}$
	= 3kg
Q16)	8.7 - 4.2 = 4.5
	$4.2 \times 2 = 8.4$
	8.4 - 4.5 = 3.9
	$(3.9 \div 3) \times 2 = 2.6$
	4.2 - 2.6 = 1.6 m
Q17)	$a)(25 \times 2) + 2 = 52$
	b) $(217-1) \div 3 = 72$
	$c)(48 \times 2) + 2 = 98$
	98 + 48 = 146

Name:	(	)
Class: Primary 6		

## CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2019 Preliminary Examination

Paper 1

**Booklet A** 

20 August 2019

15 questions 20 marks

Total Time for Booklets A and B: 1 hour

## **INSTRUCTIONS TO CANDIDATES**

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

Answer all questions.

Write your answers in this booklet.

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

This booklet consists of 9 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. What is 90 less than 749 900?
  - (1) 748 810
  - (2) 749 810
  - (3) 749 910
  - (4) 750,800

- 2. What is the best estimate for 285 x 36?
  - (1)  $200 \times 30$
  - (2) 200 x 40
  - (3) 300 x 30
  - (4) 300 x 40

3. Mr Jabir collected 30 sacks of rice for charity. He gave 7 sacks of rice to an old folks' home and another 14y sacks of rice to a children's home. How many sacks of rice did he have left?

$$(1)$$
  $23 - 14y$ 

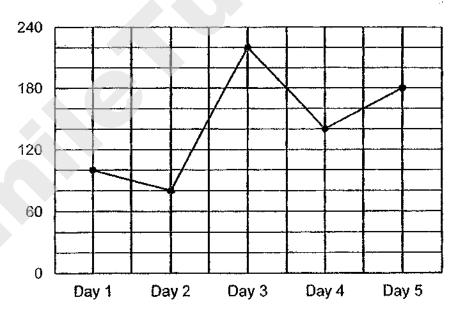
$$(2)$$
  $23 + 14y$ 

(3) 
$$16y + 7$$

- The line graph below shows the number of people attending a drama audition 4. over 5 days.

Number people

of



On which two days was there a difference of 40 people attending the audition?

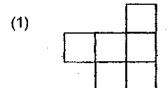
- Day 1 and Day 2 (1)
- Day 2 and Day 3 (2)
- Day 3 and Day 4 (3)
- Day 4 and Day 5 (4)

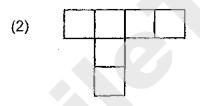
- 5. In the morning, Mrs Tok sold 40 cakes. In the afternoon, she sold 50 cakes. What was the percentage increase in the number of cakes Mrs Tok sold?
  - (1) 20%
  - (2) 25%
  - (3) 120%
  - (4) 125%

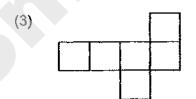
- 6. The ratio of the number of boys to the number of girls at a carnival was 5:4. Which one of the following is **not** a possible total number of children at the carnival?
  - (1) 153
  - (2) 144
  - (3) 126
  - (4) 118

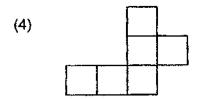


Which one of the following is a net of the cube?









8. Arrange the following distances from the longest to the shortest.

5 km 65 m 5 km 5.15 km

	Longest		Shortest		
(1)	5.15 km ,	5 km 65 m	5 km		
(2)	5 km 65 m ,	5 km	5.15 km		
(3)	5 km ,	5.15 km	5 km 65 m		
(4)	5 km	5 km 65 m ,	5.15 km		

9. The table below shows the timings of three boys at a 100-metre race. Before the race, each of them had set a target of 12 seconds. One of the boys' timings is missing.

Name	Timing (s)		
Min Shun	11.94		
Xanthus	12.10		
Wen Yang	?		
Vijay	12.05		

Min Shun was 0.12 s faster than Wen Yang. Which of the four boys' timing was the closest to the target set?

- (1) Wen Yang
- (2) Min Shun
- (3) Xanthus
- (4) Vijay

10. Hafsah walks at an average speed of 60 m/min. At this speed, how long does she take to walk 640 m?



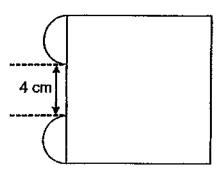
(2) 
$$10\frac{2}{5}$$
 min

- (3)  $10^{\frac{2}{3}}$  min
- (4) 11 min
- 11. A number of pupils formed a star shape with the same number of pupils on each of the sides. There were 15 pupils on each side of the star. All the sides of the star are equal. How many pupils formed the star shape?

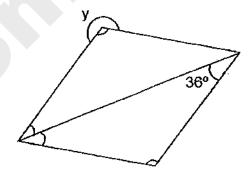


- (1) 130
- (2) 140
- (3) 145
- (4) 150

12. The figure below is made up of a square and two identical semicircles. The area of the square is 64 cm<sup>2</sup>. What is the area of the two semicircles? Leave your answer in terms of  $\pi$ .



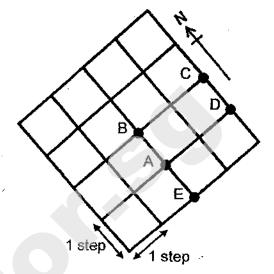
- (1)  $\pi \text{ cm}^2$
- (2) 2π cm<sup>2</sup>
- (3)  $3\pi \text{ cm}^2$
- (4)  $4\pi \text{ cm}^2$
- 13. The figure below shows a rhombus. Find ∠y.



- (1) 216°
- (2) 252°
- (3) 288°
- (4) 324°

- 14. Cynthia followed the instructions below and ended at Point A in the end:
  - (i) Walk 2 steps to the West
    - (ii) Walk 1 step to the North
    - (iii) Walk 2 steps to the East

At which point did she start at first?



- (1) E
- (2) D
- (3) C
- (4) B
- 15.  $\frac{1}{3}$  of the length of a table cloth is 45 cm shorter than  $\frac{1}{2}$  of the length of a banner.

The total length of the table cloth and the banner is 390 cm. What is the length of the banner?

- (1) 160 cm
- (2) 183 cm
- (3) 210 cm
- (4) 237 cm

Name:		(	)
Class:	Primary 6		

### CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



# Primary 6 Mathematics 2019 Preliminary Examination

Paper 1

Booklet B

20 August 2019

Booklet A	20
Booklet B	25
Total (Paper 1)	45

15 questions 25 marks

Total Time for Booklets A and B: 1 hour

#### **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.

Questions 16 to 20 carry 1 mark 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. (5 marks)

Do not write in this space

16. Simplify  $20 + 8 \times 10d \div 5 - d$ .

Ans.\_\_\_\_

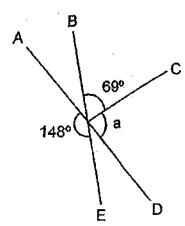
17. Write 690 thousandths as a decimal.

Ans: \_ \_\_\_\_\_

18. Express 0.1% as a fraction.

Ans: \_\_ \_\_\_\_

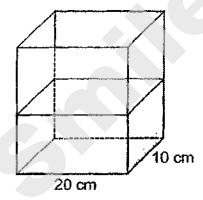
19. AD and BE are straight lines. Find ∠a.



A) and			
Ans:	:-		

Do not write in this space

20. The container below is filled with 1700 ml of water. What is the height of the water level in the container?



Ans: _			cm
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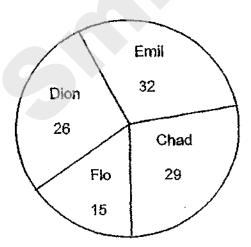
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

21. Write down all the common factors of 28 and 70.

Ans	•				
	•—	 	 	 	

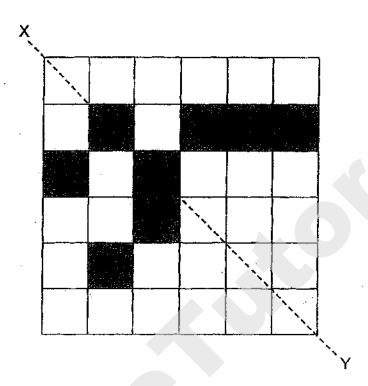
22. The pie chart below shows the number of cans 4 children collected for a recycling activity. What is the ratio of the total number of cans the 4 children collected to the number of cans Flo collected? Leave your answer in the simplest form.



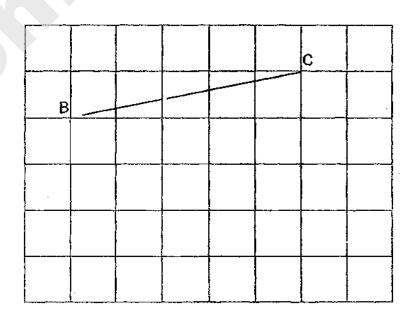
Ans	•							
7113	٠	 			 		 	_

23. The figure below is made up of squares. Shade four more squares to form a symmetric figure with XY as the line of symmetry.

Do not write in this space

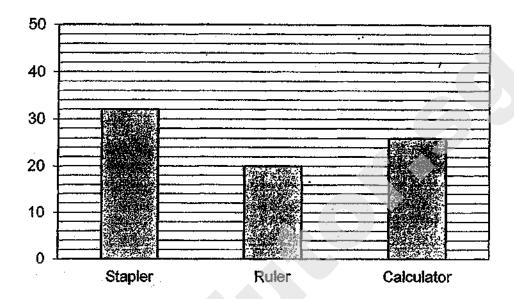


24. In the square grid below, two sides of a triangle have been drawn. Complete the drawing of triangle ABC such that CA is perpendicular to AB. Then draw another three lines to form a rectangle ACDE.



# 25. The graph below shows the number of staplers, rulers and calculators sold at Good Deal Bookshop.

Do not write in this space



The table shows the prices of the stationery.

Type of stationery	Price per stationery
Stapler	\$2
Ruler	\$0.90
Calculator	\$30

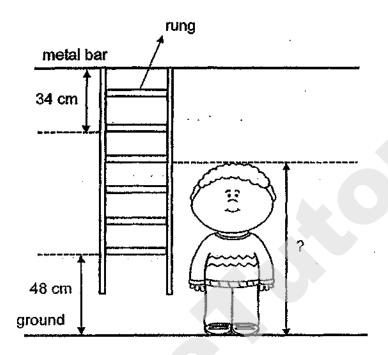
How much more money was collected from the total sale of staplers and calculators than the sale of rulers?

26.	The average of 4 different even numbers is 22. All the 4 numbers are 2-digit numbers. The biggest number is 26. What is the smallest possible number?	Do not write in this space
	Ans:	
27.	A bag contained a total of 123 blue cubes, orange cubes and green cubes at first. 27 blue cubes were removed from the bag and another 39 green cubes were put into the bag. The ratio of the number of blue cubes to the number of orange cubes to the number of green cubes became 1:3:5. How many green cubes did the bag contain at first?	
	Ans:	

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28. The ladder beside Blake is hanging from a metal bar.
The last rung is 48 cm above the ground. What is Blake's height?

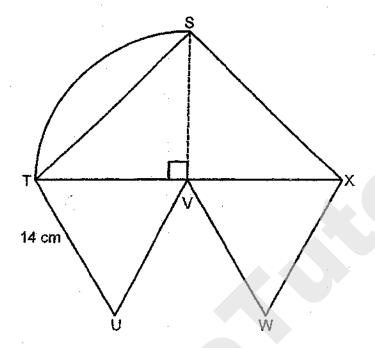
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\ns:\_\_\_\_\_m

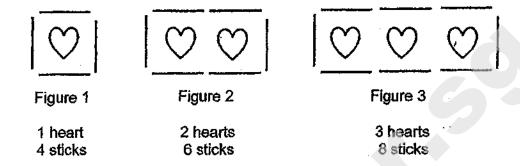
The figure below is made up of a quarter circle, a triangle SVX and two equilateral triangles TVU and VXW. The perimeter of the figure is 98 cm and TU = 14 cm. What is the length of SX? (Take  $\pi = \frac{22}{7}$ )

Do not write in this space



30.	Shing Wen had some hearts and 50 sticks. He used the hearts and sticks to
	make three figures that follow a pattern as shown below. Then he pasted the
	three figures onto a cardboard.

Do not write in this space



Each statement below is either True, False or Not possible to tell. For each statement, put a tick  $(\checkmark)$  in the correct column.

Statement	True	False	Not possible to tell	
Shing Wen used all the hearts he had to make the three figures.		·		
Shing Wen would have enough sticks to continue with the pattern to make Figure 6.				

Name:	(	)
Class: Primary 6		

## CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



# Primary 6 Mathematics 2019 Preliminary Examination

Paper 2

20 August 2019

Paper 1	45
Paper 2	55
Total Marks	00

### Parent's/Guardian's Signature

Time: 1 hour 30 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 an approved calculator is expected, where appropriate.

Questions 1 to	5 carry 2 mark	s each. Show yo	ur working ciea	arly and writ	te your ansv	vers
in the spaces p	provided. For	questions which	require units,	give your	answers in	the
units stated.					(10 ma	ırks)

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Anan entered a number into his calculator. He added 11 to the number and then
multiplied the sum by 22. Finally, he subtracted 48 from the product. In the end,
he obtained 766 as the answer. What was the number Anan' entered into his
calculator?

Ans:\_\_\_\_

- 2. A chef had a total mass of 6.05 kg of flour and sugar. He used  $\frac{3}{4}$  of the flour and
  - $\frac{1}{3}$  of the sugar to bake muffins. He had the same amount of flour and sugar left.

How much flour did he have at first?

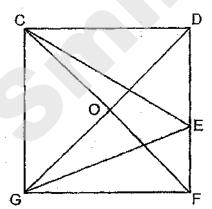
Ans:\_\_\_\_kg\_\_\_\_g

3. At an exhibition, the ratio of the number of men to the number of women was 10 : 3. Halfway through the exhibition, 110 men left and the number of men was 5 of the total number of people who remained behind. How many women were there at the exhibition?

Do not write in this space

Ans:

4. CDFG is a square with O in the centre. CGE and CGO are triangles. What fraction of the square CDFG is unshaded?



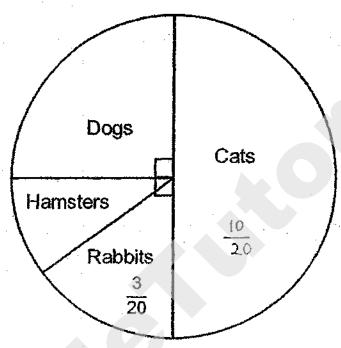
Ans : \_\_\_\_\_

At 5.50 p.m., Mr Diresh left his office to drive 50 km back to his house. He had Do not 5. write in to pass by a factory and a library. The library was 45 km away from his office this space and was exactly in the middle of the factory and his house. It was 6.20 p.m. when he passed by the factory. What was the average speed that he was driving at from his office to the factory? km/h

For questions 6 to 17, show your working clearly 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. (45 marks)

Do not write in this space

6. The pie chart below shows the different animals adopted by an animal shelter.



- (a) What fraction of all the animals adopted were hamsters?
- (b) A total number of 84 cats and hamsters were adopted. How many animals were adopted altogether?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_\_[2]

7. The table below shows the charges for domestic usage of water.

Amount of water used	Charges
Up to 40 m³	146¢ per m³
Above 40 m³	102¢ per m³

The Eng family paid a total amount of \$86.96 in June. How much water did the family use in June?

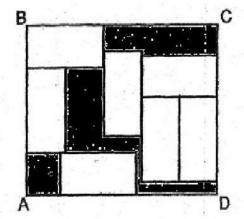
Ans: \_\_\_\_\_[3]

Do not write in this space

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8. Some identical small rectangles lie within a large rectangle ABCD as shown. The length of each rectangle is 24 cm. What is the area of the shaded part?

Do not write in this space



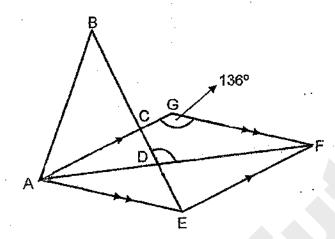
Ans : \_\_\_\_\_ [3]

Hathi had 180 twenty-cent coins and some five-cent coins, 80% of her coins were write in five-cent coins. Hathi used up 75% of the five-cent coins. What was the total value of the five-cent coins that she used up? this space

10. In the figure below, ABC is a right-angled triangle. All the sides of AEFG are equal. AF and BE are straight lines.

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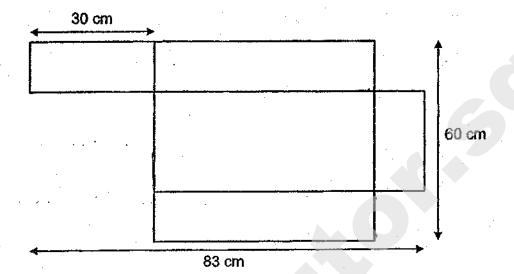
- (a) Name an isosceles triangle in the figure.
- (b) Find ∠BDF



Ans : (a) Triangle \_\_\_\_\_\_ [1]

11. The figure below shows the net of an open rectangular box. Find the volume of the box.

Do not write in this space



Ans:\_\_\_\_

[3]

12.	Do not write in this space

(a) How old is Junita now? Leave your answer in terms of r.

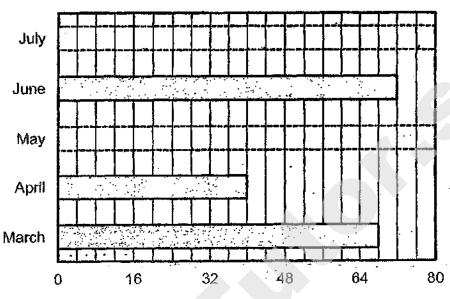
(b) Given r = 7, what was the total age of the three girls 4 years ago?

Ans: (a)	2	į
----------	---	---

(b) \_\_\_\_\_\_ [2]

13. The bar graph below shows the number of visitors at a museum over five months. The two bars that show the number of visitors in May and July have not been drawn.

Do not write in this space



Number of visitors (in thousands)

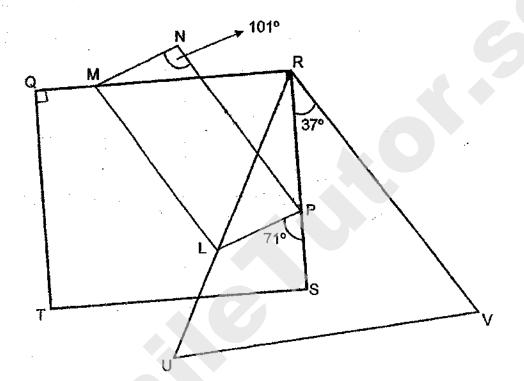
- (a) in May, the number of visitors decreased by 30% from April. There were 16 000 fewer visitors in May than In July. Draw the two bars representing the number of visitors in May and July. [3]
- (b) Write down all the months in which there were at least 44 000 visitors at the museum.

Ans:\_\_\_\_\_[1]

14. In the figure below, QRST is a rectangle, MNPL is a parallelogram and RUV is an equilateral triangle.

Do not write in this space

- (a) Find ∠URQ.
- (b) Find ∠MLR.



Ans : (a)[1	]_
-------------	----

15. Ivana has \$189 and Janie has \$93 at the end of January. Starting from February, Ivana saves \$4 every week and Janie saves \$10 every week.

Do not write in this space

- (a) Janie wants to have the same total amount of money as Ivana.
  - (i) How many weeks does Janie need to save so that she will have the same total amount of money as Ivana?
  - (ii) What is this total amount of money Janie will have?
- (b) Janie wants to have \$120 more than Ivana. How much money will Ivana have?

Ans : (a) (i)	[2]
(ii)	[1]
(b)	roi

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16. Matthias spent one week to read a book. He read some pages every day, starting on Monday.

On Monday, the ratio of the number of pages read to the number of pages not read was 1:5.

After he had read another 120 pages on Tuesday, 70% of the book was not read. For the rest of the week, he read the same number of pages every day. How many pages did Matthias read every day for the rest of the week?

Do not write in this space

 re

17. At a camp, Mrs Sitoh arranged the pupils into 4 equal groups of boys and 5 equal groups of girls. In every group of girls, the number of girls was 5 more than the number of boys in each group.  $\frac{3}{8}$  of all the pupils at the camp were boys. How many pupils were there altogether at the camp?

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SCHOOL: CHIJ PRIMARY SCHOOL

LEVEL: PRIMARY 6

SUBJECT: MATH

TERM: 2019 PRELIM

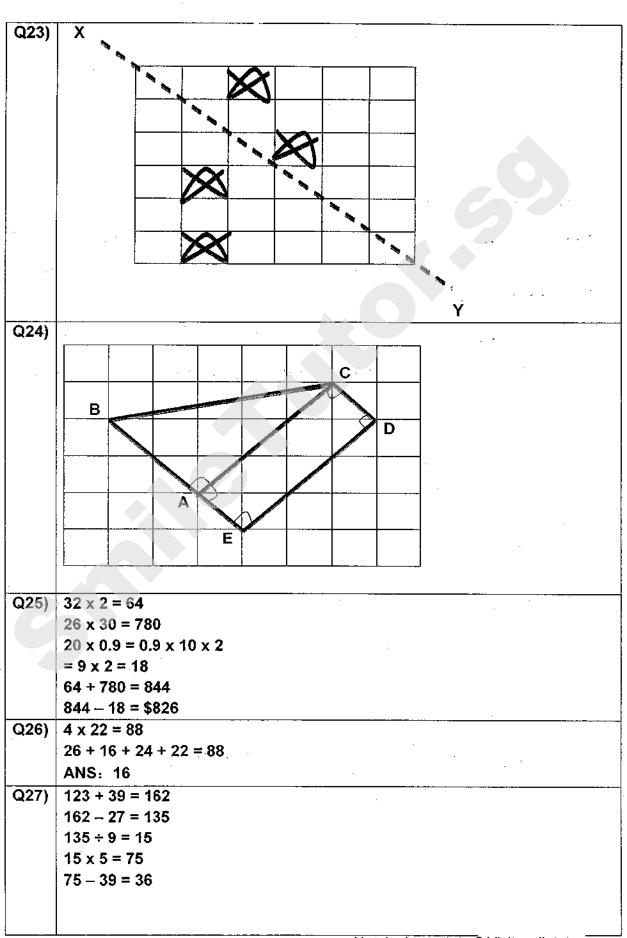
### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	1	4	2	4	3	1	4	3

Q 11	Q12	Q13	Q14	Q15
2	1	2	1	3

### PAPER 1 BOOKLET B

Q16)	20 + 8 x 10d ÷ 5 – d
	$= 20 + 80d \div 5 - d$
	= 20 + 16d - d
	= 20 + 15d
	ANS:(15d + 20)
Q17)	$0.001 \times 690 = 0.001 \times 10 \times 69$
	$= 0.01 \times 69$
	= 0.69
Q18)	$0.1\% = \frac{1}{1000}$
Q19)	180° – 148° = 32°
	32° + 69° = 101°
	180° – 101° = 79°
Q20)	1700 ÷ 20 ÷ 10 = 17 ÷ 2
	= 8.5 cm
Q21)	1, 2 ,7 and 14
Q22)	26 + 32 + 29 + 15 = 102
	102 : 15
	= 34 : 5  Need a home tutor? Visit smiletutor.sg



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Q28)	$34 \div 2 = 17$			
	17 x 3 = 51			
	51 + 48 = 99	1		
	99cm = 0.99	m		
Q29)	$\frac{1}{4} \times \frac{22}{7} \times 28 =$ $98 - 22 - 14$ $= 20 \text{ cm}$	$\frac{22}{7} \times \frac{7}{1} = 22$ $-14 - 14 - 1$	4 = 98 - 78	
Q30)	True	False	Not	
			Ž.	
		√ √		
		1	<u> </u>	<del>,</del>

### PAPER 2

Q1)	766 + 48 = 814
	814 ÷ 22 = 37
	37 - 11 = 26
Q2)	$\frac{1}{4}$ of the flour = $\frac{2}{3}$ of the sugar
	4
	$\frac{2}{8}$ of the flour = $\frac{2}{3}$ of the sugar
	8 + 3 = 11
	6.05 ÷ 11 = 0.55
	0.55 x 8 = 4.4
	4.4kg = 4kg 400g
Q3)	M: W M: W12 – 5 = 7
	<u>10 : 3 70 : 21</u> 70 - 15 = 55
	5: 7 15: 21 110 ÷ 55 = 2
	2 x 21 = 42
	1 2
Q4)	$1 - \frac{1}{4} = \frac{3}{4}$
Q5)	50 - 45 = 5
	45 – 5 = 40
	$40 \div 30 = 1\frac{1}{3}$
1	$1\frac{1}{2} \times 60 - 80 \text{ km/h}$
	13 X 00 - 00 Killin
	Need a home tutor? Visit smiletutor.sg
L	11000 a nome tator: Visit similation.sg

	<u> </u>
Q6)	$a) \frac{1}{4} - \frac{3}{20} = \frac{1}{10}$
	; '4 20 <b>10</b>
	b)10 + 2 = 12
	84 ÷ 12 = 7
	$7 \times 20 = 140$
Q7)	146¢ = \$1.46
r	$102\phi = \$1.02$
	\$1.46 x 40 = \$58.40
	\$186.96 - \$58.40 = \$28.56
	\$28.56 ÷ \$1.02 = 28
	28 + 40 = 68m³
Q8)	24 ÷ 2 = 12
ασj	$24 \times 12 = 288$
	288 x 7 = 2016
,	24 + 12 + 24 = 60
	24 + 12 + 12 = 48
	60 x 48 = 2880
	2880 - 2016 = 864cm²
·	
Q9)	$20\phi : 5\phi$ $180 \div 2 = 90$
	2 : 8
	X10 x90 180 : 720
	100 . 720
	75
	$\frac{75}{100}$ × 720 = 540
	540 × \$0.05 - \$27
Q10)	a)AEF
G(10)	b)180° – 136° = 44°
	44° ÷ 2 = 22°
	180° – 90° – 22° = 68°
	180° - 68° = 112°
Q11)	
	30 ÷ 2 = 15
	83 - 30 - 15 = 38
	38 x 30 x 15 = 17100cm³
	1

120 ÷ 2 = 60  
60 ÷ 2 = 30  

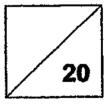
$$\frac{7}{10}$$
x3 =  $\frac{21}{30}$   
30 x 21 = 630  
 $7 - 2 = 5$   
630 ÷ 5 = 126  
Q17)  $\frac{5}{8}$  > 20 units = 15 units + 25  
5 units = 25  
1 unit = 25 ÷ 5 = 5  
5 x 32 = 160



#### **2019 PRIMARY 6 PRELIMINARY EXAMINATION**

Name:	(`)	Date: 22 August 2019
Class: Primary 6 ( )		Time: <u>8.00 a.m 9.00 a.m.</u>
Parent's Signature:		•

## 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. Show your working clearly as marks are awarded for correct working.
- 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)

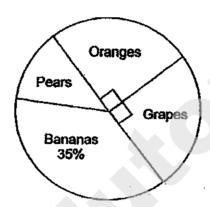
- Q1. Round 588 619 to the nearest thousand.
  - (1) 580 000
  - (2) 588 000
  - (3) 589 000
  - (4) 590 000
- Q2. Which of the following is equal to  $\frac{11}{4} \div \frac{1}{4}$ ?
  - (1)  $\frac{11}{4} \times \frac{4}{1}$
  - (2)  $\frac{11}{4} + \frac{4}{1}$
  - (3)  $\frac{4}{11} \times \frac{1}{4}$
  - (4)  $\frac{4}{11} + \frac{1}{4}$
- Q3. Which of the following is the same as 20 kg 30 g?
  - (1) 2.030 g
  - (2) 2 300 g
  - (3) 20 030 g
  - (4) 20 300 g

- Q4. Express  $10\frac{1}{20}$  as a decimal.
  - (1) 10.02
  - (2) 10.05
  - (3) 10.20
  - (4) 10.50
- Q5. Which of the following is greater than  $\frac{7}{8}$ ?
  - (1)  $\frac{2}{3}$
  - (2)  $\frac{4}{5}$
  - (3)  $\frac{5}{6}$
  - (4)  $\frac{8}{9}$
- Q6. The diameter of a wheel is 56 cm. What is the circumference of the wheel? (Take  $\pi = \frac{22}{7}$ )
  - (1) 88 cm
  - (2) 176 cm
  - (3) 352 cm
  - (4) 784 cm

Q7	. Siti is facing north-east after turning 270° anti-clockwise.
	What direction was she facing at first?
	(1) West
	(2) South
	(3) South-east
	(4) North-west
	Cy Than the
Q8	. There are 35 students in a class. 15 of them are girls while the rest are boys.
	What is the ratio of the number of boys to the number of girls in the class?
	(1) 3:4
	(2) 3:7
	(3) 4:3
	(4) 4:7
_ Q9	. After spending 60% of his savings on some books, Peter has \$400 left.
	How much did he spend on the books?
	(1) \$160
	(2) \$240
	(3) \$600
	(4) \$1 000
	·
-	

Q10. The pie chart represents the number of fruits sold by a fruit stall.

If 30 oranges were sold, how many pears were sold?



- (1) 15
- (2) 18
- (3) 30
- (4) 55

Q11. Siying and Anna were standing in a queue to enter a concert.

Siying was exactly in the middle of the queue.

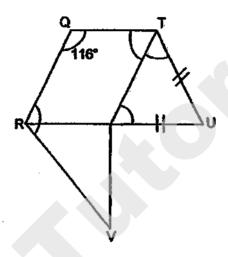
Anna was the 43rd person after Siying and there are another 20 people after Anna. How many people were there in the queue?

- (1) 63
- (2) 65
- (3) 126
- (4) 127

Q12. The following figure is made up of three shapes. QRST is a parallelogram.

STU is an isosceles triangle. RSV is a right-angled triangle.

RSU is a straight line. Which one of the following angles cannot be found?



- (1) ∠STU
- (2) ∠STQ
- (3) ∠QRV
- (4) ∠RST

Q13. The first 14 numbers of a number pattern are given below.

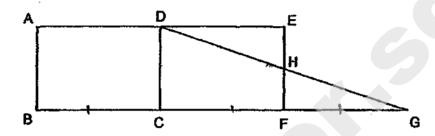
How many number '8' are there in the first 130 numbers?

-	8	1 0	8.	8	1.	0	8	8	1	0.	8	- 8	1	-
·	jst								r 25				144	

- (1) 33
- (2) .52
- (3) 64
- (4) 65

Q14. The figure below shows 2 rectangles of the same size. BC = CF = FG.

The area of Rectangle ABCD is 100 cm<sup>2</sup>. What is the area of triangle FGH?



- (1) 25 cm<sup>2</sup>
- (2) 50 cm<sup>2</sup>
- (3) 75 cm<sup>2</sup>
- (4) 100 cm<sup>2</sup>
- Q15. The average mass of Fruit A and Fruit B is 6 kg.

  The mass of Fruit A mass is half the mass of Fruit B.

  Find the mass of Fruit B.
  - (1) 8 kg
  - (2) 2 kg
  - (3) 3 kg
  - (4) 4 kg

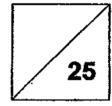
- END OF BOOKLET A -



#### **2019 PRIMARY 6 PRELIMINARY EXAMINATION**

Name:	( ) Date: 22 August 2019
Class: Primary 6 ( )	Time: <u>8.00 a.m. – 9.<b>00</b> a.m</u>
Parent's Signature:	

# 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. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

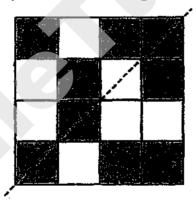
Quest quest	tions 16 to 20 carry 1 mark each. lons which require units, give you	Write your answers in the spaces p	rovided. For (5 marks)
Q16.	25% of a number is 24. What is	$\frac{1}{3}$ of the number?	
	į,		
	,		
		Ans:	
~ 45			
Q17.	A car is travelling at a speed of 7 How long will the car take to travelle		
		•	
		Ans:	min
	6		
Q18.	Express <sup>6</sup> / <sub>7</sub> as a percentage.		
	· · · · · · · · · · · · · · · · · · ·		
	. **		• • •
			•
	·	Ans:	%

#### Q19. Arrange the following numbers in descending order.

0.107, 10.07, 1.07, 10.70

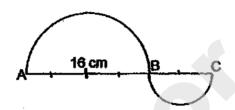
Greatest

#### Q20. Shade 2 more squares such that the figure below is symmetrical.



Questions 21 to 30 carry 2 marks each. She provided for each question and write you For questions which require units, give your ans	r answers in the spaces provided.
Q21. Find the value of 98 - 24 + 2 + (51 - 47)	
del. The die tade of oo = 27 · 2 · (o) ······//	
	Ans:
000 m	
Q22. Find the value of $\frac{m}{5} \times m + 3$ when $m = 15$	<b>i.</b>
	Ans:
	7110.
Q23. Torn can paint a room in 2 hours white A	li can paint the same room in 3 hours.
if Tom and Ali paint the room together	
paint in 1 hour?	•
	•
	•
	4 no.
	Ans:

Q24. The figure below shows 2 semicircles. AB is twice of BC. Find the area of the figure. Leave your answer in terms of  $\pi$ .



Ans: \_\_\_\_\_cm²

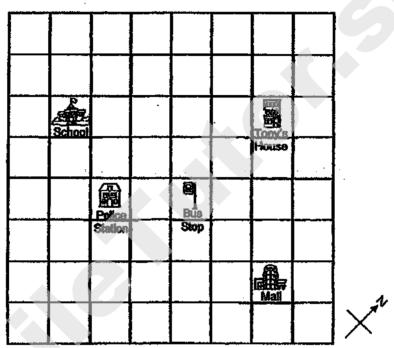
Q25. A rectangle has a breadth of (2y + 1) cm long.

Its length is y cm longer than its breadth.

What is its perimeter in terms of y?

Ans: \_\_\_\_om

Q26. Four landmarks of Tony's neighbourhood are shown in the square grid below.



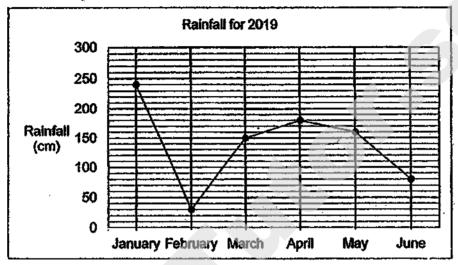
b) A clinic is to be built directly south of Tony's house and south west of the Mail. Mark on the grid with an 'X' to show where the clinic will be built.

a) In which direction is Tony's house from the school?

Ans: a) \_\_\_\_\_

Q27.	Andy gave 30% of his money to his sister and spent	40% of the remainder.
	What percentage of his money was left?	·
	•	
		•
		Ans:%
Q28.	A shopping mall provides a shuttle bus service from the	mail to the MRT
	station every 50 minutes.	
	The first shuttle bus leaves the mall at 11 a.m. and there	are 12 shuttle
	services each day.	
	At what time is the last shuttle service?	
		•
		•
		$(x_{i_1}, \dots, x_{i_{k-1}}, \dots, x_{i_{k-1}}) \in \mathbb{R}^{n} \times \mathbb{R}^{n}$
		•
•		
		Ans:p.m.
		, n.v b

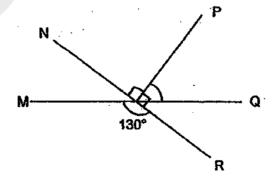
Q29. The graph below shows the amount of rainfall for Singapore in 2019 from January to June.



What was the average monthly rainfall from January to June?

Ans:		cm
------	--	----

Q30. In the figure below, not drawn to scale, MQ and NR are straight lines. ∠POR is a right-angle. Find ∠POQ.



Ans:	 <del></del>

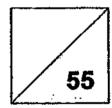
- END OF BOOKLET B -



#### **2019 PRIMARY 6 PRELIMINARY EXAMINATION**

Name:	()	Date: <u>22 August 2019</u>
Class: Primary 6 (	)	Time: <u>10.30 a.m. – 12.00 noor</u>
Parent's Signature:		_

### MATHEMATICS PAPER 2



#### **INSTRUCTIONS TO CANDIDATE**

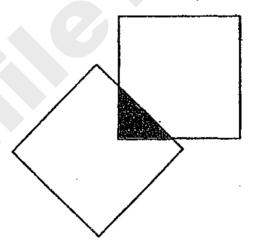
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are allowed to use a calculator.

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)

Q1. How many common factors of 44 and 88 are there?

Ans:

Q2. The figure below shows 2 identical squares. The shaded area is 15% of each square. Find the ratio of the shaded area to the area of the figure.



Ans: \_\_\_\_\_

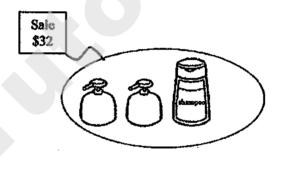
Q3. The following drawing shows an incorrect net of a cube. Mark 'X' on the face(s) which is/are incorrect. Q4. Mrs Tan is 4 times as old as her son. Her son is 8 years old. In how many years' time would her son be  $\frac{1}{3}$  of Mrs Tan's age? \_\_\_\_ years' time Q5. The figures are made up of squares. Study the pattern. How many squares are there in Figure 13? Figure 2 Figure 3

For questions 6 to 17, 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.

(45 marks)

Q6. A bottle of body wash costs \$11 and a bottle of shampoo costs \$18.

During a sale, 2 bottles of body wash and a bottle of shampoo are sold at a discounted price of \$32. What is the percentage discount given during the sale?



Ans: \_\_\_\_\_\_[3]

- Q7. A leaking tap leaks 2 m² of water in 1 second.
  - a) How many litres of water is wasted if the tap leaks for a whole day?
  - b) If the water costs 20 cents per litre, how much would the wasted water cost?

Ans: a) \_\_\_\_\_ [2]

b)\_\_\_\_\_[1]

Q8. Mr Chan drove from Town M to Town P at a speed of 65 km/h.

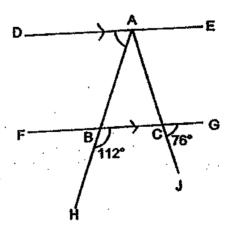
Mr Lim drove 340 km from Town P to Town Q at a speed of 85 km/h.

If both drivers took the same time to drive to their respective destinations, what is the distance between Town M and Town P?

Ans: \_\_\_\_\_\_[3]

Q9. DE and FG are parallel lines. ∠HBC is 112° and ∠GCJ is 76°.

- a) Find ∠BAC.
- b) Find ∠DAB.



Ans: a) \_\_\_\_\_[2]

b) \_\_\_\_\_[1]

Q10.	At a party, $\frac{1}{3}$ of the people were men.	of the remainder were women and the
	rest were children. There are 55 adults.	How many children were at the party?

Ans:	(3]
------	-----

Q11. At a concert, there were 402 people in the audience.

A child's ticket costs half as much as the cost of an adult ticket.

An adult ticket costs \$58,

A total of \$17 690 was collected from all the tickets sold.

- a) Find the cost of a child's ticket.
- b) How many children were in the audience?

Ans: a)	 [1]

Q12.	Company A and Company B sent their recyclable waste for recycling in the	le
	quantities shown in the table below.	

	Plastic (kg)	Paper (kg)	Glass (kg)
Company A	90	75	56
Company B	100	50	84

Both companies were paid for their recyclable waste according to the charges as shown in the table below.

Recyclable	Price per kg
Plastic	\$0.30
Paper	\$0,80
Glass	\$1.00

- a) Which Company, A or B, received more money for their recycling efforts? How much more?
- b) Study the above information carefully.

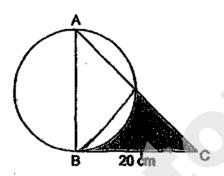
Each of the statements below is either True, False or Not Possible to Tell from the information given.

For each statement, put a tick ( $\checkmark$ ) to indicate your answer.

		True	False	Not Possible to Tell
<b>(i)</b>	Company A collected more money from recycling plastic waste than glass waste.			
(ii)	Company A collected 50% more paper waste than Company B.			

Ans: a) Company[1		
A	mount.	_[1
b)	(fick your answers)	[2

Q13. The figure shows a circle and a right-angled isosceles triangle. AB = BC = 20 cm. Find the shaded area. (Take  $\pi$  = 3.14)



Q14. The average mass of Ahmad, Brian, Caili and Devi is 38 kg.

The average mass of Ahmad, Brian and Caill is 37 kg while the total mass of Caili and Devi is 77 kg.

- a) Find Caili's mass.
- b) Brian and Devi have the same mass. Find Ahmad's mass.

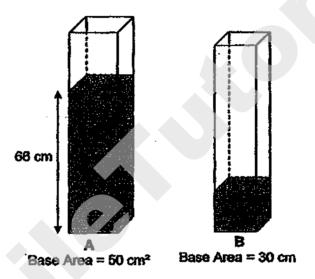
Ans: a)	
b)	[2

Q15.	A bakery baked buns and cakes in the morning in the ratio 4:1.
	After selling 50 buns and 10 cakes in the afternoon, the ratio of the number of
	buns to the number of cakes left became 3 : 1.

- a) Find the number of buns that the bakery baked in the moming.
- b) Find the number of cakes left.

Ans: a)	[3]
b)	

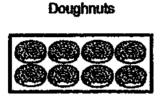
- Q16. A and B are two rectangular containers. At first, the water level in Container A and B is as shown. The amount of water in Container A is 5 times that of the water in Container B. Then Keith poured some water from Container A into Container B until the water level in both containers are of the same height.
  - a) Find the volume of water in Container B.
  - b) Find the increase in water level of Container B.



Ans: a)\_\_\_\_\_[1]

b)\_\_\_\_\_[4

Q17. Doughnuts and cupcakes were sold in packs by ABC Bakery. Mrs Kumar, Mrs Fauziah and Mrs Leong bought doughnuts and cupcakes at the prices shown below.



4 packs for \$12

#### Cupcakes



6 packs for \$15

- a) Mrs Kumar wanted to spend an equal amount of money on doughnuts and cupcakes. Find the minimum number of packs of cupcakes she bought.
- b) Mrs Leong bought some packs of doughnuts and Mrs Fauziah spent \$84 on doughnuts. Afra Fauziah then gave Mrs Leong 20 doughnuts. In the end, Mrs Fauziah had 88 more doughnuts than Mrs Leong. How many packs of doughnuts did Mrs Leong buy?

Ans:	a)	 	[2]	

b)[3
------

SCHOOL: TAO NAN PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

TERM : 2019 PRELIM

#### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	3	2	4	2	4	3	3	2

Q 11	Q12 Q13		Q14	Q15	
4	3	4,	1	1	

#### **PAPER 1 BOOKLET B**

Q16)	$24 \div 25 \times 100 = 96$
	$\frac{1}{3}$ of 96 = 96 ÷ 3 = 32
Q17)	35km ÷70km/h = 0.5h
	= 30 min
Q18)	85 <sup>5</sup> / <sub>7</sub> %
Q19)	10.7 , 10.07 , 1.07 , 0.107
Q20)	
Q21)	
	= 98 - 12 + 4 = 90
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Q22)	$\frac{15}{5}$ x 15 + 3 = 15 x 3 + 3 = 48
Q23)	
	In 1 hour $\rightarrow \frac{1}{3}$ of room in 1 hour $\rightarrow \frac{1}{3}$ of room
	$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
Q24)	16cm ÷ 2 = 8cm 8cm ÷ 2 = 4cm
	Area = (π x 8cm x 8cm + π x 4cm x 4cm )÷ 2
	$= (64\pi \ cm^2 + 16\pi \ cm^2) \div 2$
	$= 80\pi \text{ cm}^2 \div 2 = 40\pi\text{cm}^2$
Q25)	Perimeter (in cm) = (2y +1) x 4 + 2 x y
	= 8y + 4 + 2y =(10y + 4)cm
	-(10y + 4)citt
Q26)	a)
	Florise Florise
,	Price Station Step
	b)North-east
Q27)	$40\% \ of \ 70 = \frac{70}{5} \times 2 = 28$
<b>*</b>	100% - 28% - 30% = 42%
Q28)	8.10p.m
Q29)	(240cm + 30cm + 150cm + 180cm + 160cm + 80cm) ÷6 = 840cm ÷ 6 = 140cm
	Need a home tutor? Visit smiletutor.sg

Q30)	<noq 130°<="" =="" th=""></noq>
]	<poq -="" 130°="" 90°="40°&lt;/th" ==""></poq>
	·

#### PAPER 2

Q1)	6
Q2)	100% - 15% = 85% Shaded area : Area of figure 15 : 85+15+85 15 : 185 3 : 37
Q3)	
Q4)	8 x 3 = 24 24 ÷ 2 = 12 12 - 8 = 4
Q5) -	No. of squares = 13 x 13 = 169
Q6)	Usual price = \$11 x 2 + \$18 = \$40 Percentage discount = $\frac{40-32}{40}$ x 100% = 20%
Q7)	a)86400 x 2ml = 172800ml = 172.8 l b)0.20 x 172.8 = \$34.56
Q8)	Time taken = 340km ÷ 85km/h = 4h Distance between M and P = 65km/h x 4h = 260km
Q9)	a) <acb 76°<br="" ==""><bac -="" 112°="" 76°="36°&lt;br" ==""><bac 36°<br="" is="">b)<eac 76°<br="" ==""><dab -="" 180°="" 36°="" 76°="68°&lt;br" ==""><dab 68°<="" is="" th=""></dab></dab></eac></bac></bac></acb>
Q10)	4 units = $55 \div 11 \times 4 = 20$
	Need a home tutor? Visit smiletutor sg

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Q11)
       a)cost of a child's ticket = $58 ÷ 2 = $29
        b)402 \times $58 = $23316
         Extra = $23316 - $17690 = $5626
        Diff = $58 - $29 = $29
        No.of children = $5626 \div $29 = 194
Q12) | a)Company : B
         company A
                                                  company B
       $0.30x90+$0.80x75+$1x56
                                                 $0.30x100+$0.80x50+$1x84
       = $143
                                                  = $154
       Difference = $154 - $143 = $11
       b)i)False
         ii)True
Q13) | 20cm \div 2 = 10cm
       Area of triangle = \frac{1}{2} x 20cm x 10cm = 100cm<sup>2</sup>
       Area of semicircle = \frac{1}{2} x 3.14 x 10cm x 10cm = 157cm<sup>2</sup>
       157cm^2 - 100cm^2 \div 2 = 28.5cm^2
       Area of shaded = 100cm^2 - 28.5cm^2 = 71.5cm^2
Q14) a)Total mass of Ahmad, Brian, Caili and Devi = 38kg x 4 = 152kg
          total mass of Ahmad, Brian, Caili = 37kg x 3 = 111kg
          Devi's mass = 152kg - 111kg = 41kg
          Caili mass = 77kg - 41kg = 36kg
       b)Ahmad's mass = 152kg - 36kg - 41kg - 41kg = 34kg
Q15) 50 - 40 = 10
       4 - 1 = 3
       3 units = p + p + 40 = 2p + 40
       1 \text{ unit} = 1p + 10
       2 units = (1p+10) \times 2 = 2p + 20
       1 unit = 2p + 40 - 2p + 20 = 20
       P = 20 - 10 = 10
       No.of buns baked in the moring
       = 50 + 10 \times 3 = 80
       N0.of cakes left = p = 10
       a)The bakery baked 80 buns.
       b)10 cakes were left
Q16) a)volume of water in B at the end
        =\frac{3960 \text{cm}^3}{.5+3} \times 3 = 1485 \text{cm}^3
       b)Diff = 1485cm<sup>3</sup> - 660cm<sup>3</sup> = 825cm<sup>3</sup>
         increase in water level = 825cm³ ÷ 30cm² = 27.5cm
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Q17) a)LCM of (12,15) = 2 x 2 x 3 x 5 = 60 No.of packs of cupcakes =  $\frac{$60}{$15}$ x 6 = 24

b)No. of packs Mrs Fauziah bought =  $\frac{$84}{$12}$ x 4 = 28

No. of doughunts =  $28 \times 8 = 224$ 

224 - 20 = 204

204 - 88 = 116

116 - 20 = 96

No.of packs Mrs Leong bought =  $\frac{96}{8}$ = 12