

### HENRY PARK PRIMARY SCHOOL 2018 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

#### PAPER 1 (BOOKLET A)

Name:	(	<b>)</b> ,	Parent's Signature
Class: Primary 6	<u></u> ·		

#### Marks:

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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.

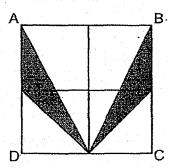
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Express 3.025 as a mixed number in the simplest form.
  - (1)  $3\frac{1}{4}$
  - (2)  $3\frac{2}{5}$
  - (3)  $3\frac{1}{25}$
  - (4)  $3\frac{1}{40}$
- 2 Simplify 12 + 10y 5 9y + 2
  - (1) 5 + y
  - (2) 9 y
  - (3) 9 + y
  - (4) 19 y
- In the figure below, ABCD is made up of four identical squares.

  What fraction of the figure is shaded?

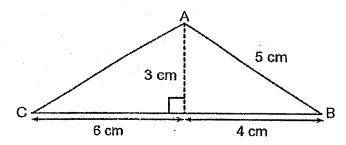


- (2)  $\frac{1}{2}$
- (3)  $\frac{1}{3}$
- (4)  $\frac{1}{4}$

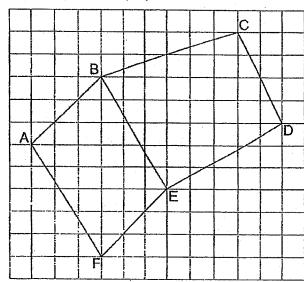


- Which of the following is the same as 2030 cm?
  - (1) 2 m 30 cm
  - (2) 2 m 3 cm
  - (3) 20 m 30 cm

- (4) 20 m 3 cm
- 5 What is the area of triangle ABC shown below?

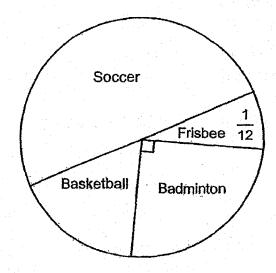


- (1) 15 cm<sup>2</sup>
- (2) 18 cm<sup>2</sup>
- (3) 30 cm<sup>2</sup>
- (4) 36 cm<sup>2</sup>
- 6 In the square grid below, which two lines are perpendicular to each other?
  - (1) AF and BE
  - (2) BE and ED
  - (3) ED and DC
  - (4) EF and AF



Use the information below to answer questions 7 and 8.

The pie chart shows the different games a number of students played during recess. Half of the students played soccer.



7 What fraction of the students played basketball?

- (1)  $\frac{5}{12}$
- (2)  $\frac{1}{6}$
- (3)  $\frac{1}{3}$
- (4)  $\frac{1}{4}$

There were 75 more students who played soccer than frisbee. How many students played badminton?

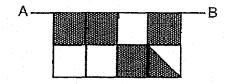
- (1) 15
- (2) 30
- (3) 45
- (4) 90

Joan baked a pie. She ate  $\frac{1}{6}$  of it and her sister ate  $\frac{1}{4}$  of the remainder.

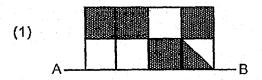
What fraction of the pie was left?

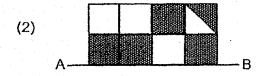
- (1)  $\frac{3}{8}$
- (2)  $\frac{5}{8}$
- (3)  $\frac{5}{12}$
- (4)  $\frac{7}{12}$

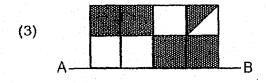
10 The bottom half of a symmetric figure is shown below. AB is the line of symmetry.

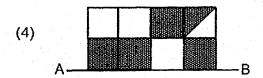


Which one of the following completes the symmetric figure?



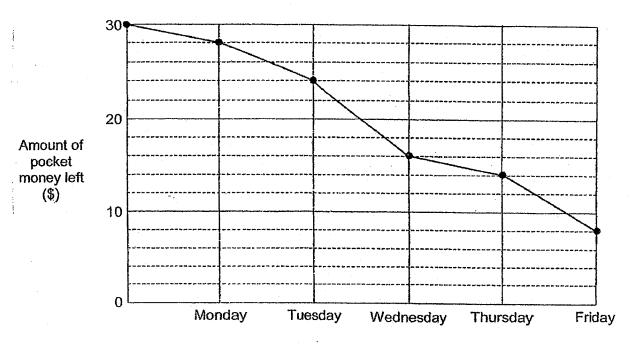






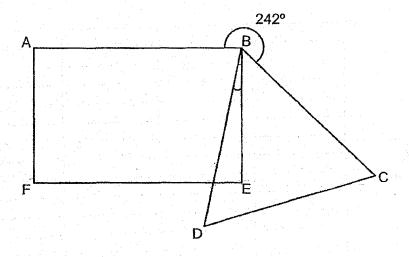
Use the information below to answer questions 11 and 12.

Tom received \$30 each week for his pocket money. The line graph below shows the amount of pocket money he had left at the end of each day.



- 11 On which day did Tom spend the most amount of money?
  - (1) Tuesday
  - (2) Wednesday
  - (3) Thursday
  - (4) Friday
- What was the average amount of pocket money that Tom spent each day from Monday to Friday?
  - (1) \$4.40
  - (2) \$12
  - (3) \$20
  - (4) \$22

In the figure, ABEF is a rectangle, BCD is an equilateral triangle and ∠ABC = 242°. Find ∠DBE.



- (1) 28°
- (2)  $30^{\circ}$
- (3) 32°
- (4) 58°
- Adam and Bella had the same number of stamps. After Adam gave Bella

 $\frac{1}{6}$  of his stamps, Bella had 84 stamps. How many stamps did Adam have at first?

- (1) 60
- (2) 70
- (3) 72
- (4) 98

A family of 8 adults and 5 children went for the high tea buffet at Royal Café. What is the least amount of money the family had to pay?

# Royal Café High Tea Buffet

Adult price: \$22.50 Child price: \$11.10

#### Promotion!

For 3 paying adults, 2 children dine free!

- (1) \$179.10
- (2) \$191.10
- (3) \$213.30
- (4) \$235.50

(Go on to Booklet B)

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#### HENRY PARK PRIMARY SCHOOL 2018 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.

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

(5 marks)

16 Find the value of  $\frac{85-7a}{4}$  when a=5. Express your answer as a decimal.

Ans:

17 Find the value of  $\frac{4}{5} \div \frac{3}{7}$ 

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

A number with 3 decimal places is 7.9 when rounded to 1 decimal place. What is the greatest possible value of this number?

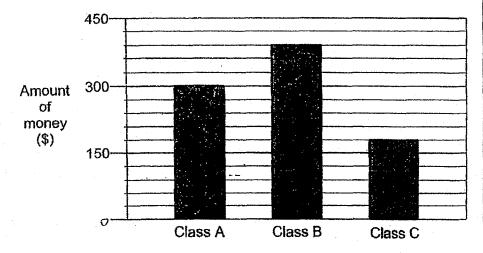
Ans:

The ratio of the length to the breadth of a cuboid is 3:1. The ratio of the height to breadth of the cuboid is 4:3. Find the ratio of the length to the height of the cuboid.

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Ans:

The graph shows the amount of money collected by 3 classes for a charity.



What was the total amount of money collected by the 3 classes?

17.15

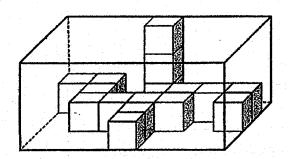
Ans: \$

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)

The figure shows a rectangular box partly filled with 1-cm cubes. What is the capacity of the rectangular box?



Ans:			~m3
/W10.			cm

22 The airmail rates to Country X and Country Y are shown below.

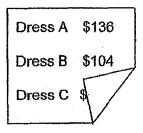
Mass Step	Country X	Country Y
First 20 g or part thereof	\$1.25	\$0.75
Every additional 10 g or part thereof	\$0.30	\$0.45

Jayen sent a letter weighing 18 g to Country X and a letter weighing 41 g to Country Y. How much did he pay altogether?

Ans:	\$	

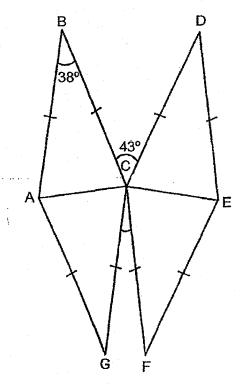
The receipt below shows the cost of 3 dresses Mrs Koh bought. The cost of Dress C was 20% of the total cost of the 3 dresses. Find the total cost of the 3 dresses.

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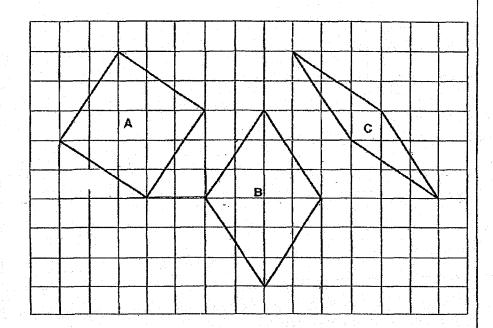


Ans: \$

In the figure, ABC, CDE, EFC and CGA are identical isosceles triangles. ∠ABC = 38° and ∠BCD = 43°. Find ∠GCF.



Ans:



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)	Rhombus A has the same perimeter as Rhombus C.			
(b)	Rhombus A has the same area as Rhombus B.			

Figure 1 is a parallelogram. Figure 2 is made up of 7 such parallelograms. The perimeter of Figure 2 is 180 cm. What is the length of the side AB of the parallelogram?

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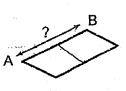


Figure 1

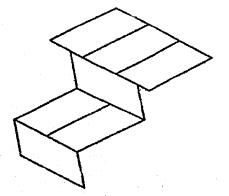


Figure 2

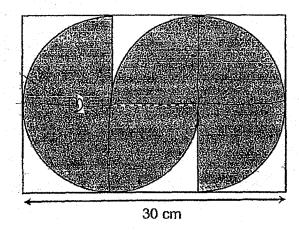
Ans:	cm

27 The average of three different 2-digit numbers is 30. Find the largest possible sum of two of the numbers.

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

The figure shows 2 identical three-quarter circles on a rectangle. Given that the length of the rectangle is 30 cm, find the area of the unshaded parts of the figure. (Take  $\pi = 3.14$ )

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Ans: cm<sup>2</sup>

Figure 1 shows a cuboid measuring 5 cm by 7 cm by 10 cm. The base of the cuboid is shaded. Figure 2 shows the net of the cuboid.

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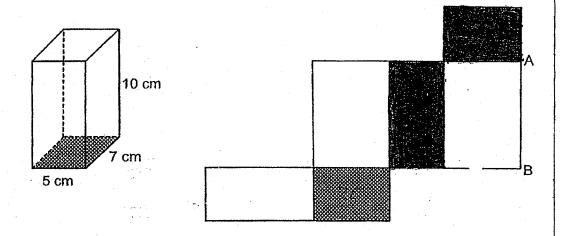


Figure 1

Figure 2

- (a) Find the length of side AB of the net in Figure 2.
- (b) Shade two more faces in Figure 2 so that the total shaded area of the net is 120 cm<sup>2</sup>.

Ans: (a) cm

30	Mr Tan is bet of 6. Next ye	ween 30 and ar, his age w	70 year vill be a r	s old. Thi nultiple of	s year, h 7. How	is age is old is Mi	a multip Tan thi	ole s	Do not write in this space
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End of Paper 1



### HENRY PARK PRIMARY SCHOOL 2018 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.

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.

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(10 marks)

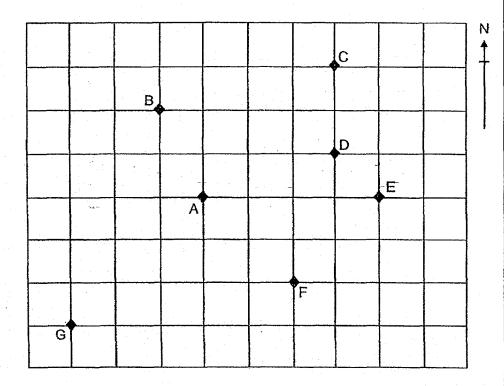
1	$\frac{3}{5}$ of the length of Bar X is glued to $\frac{2}{5}$ of the length of Bar Y as shown.
	Find the ratio of the length of Bar X to the length of Bar Y. Express your
	answer in the simplest form.

Bar X		
		Bar Y

Ans:

2 Seven places of interest, A, B, C, D, E, F and G, of a town are shown in the square grid below.

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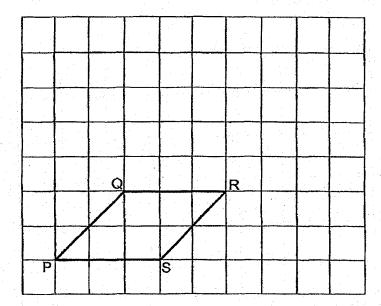
- (a) In which direction is D from E?
- (b) Mr Lee is at one of the places of interest. He is facing C. When he turns 270° anti-clockwise, he faces F. Which place of interest is Mr Lee at?

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

(b)

3 The figure below shows a parallelogram PQRS drawn on the square grid.

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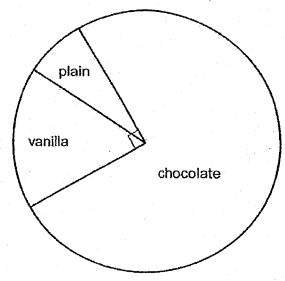


- (a) Draw an isosceles triangle PXY in the square grid such that PX is twice of PS, PX = XY and ∠PXY is 90°. Triangle PXY does not overlap with parallelogram PQRS.
- (b) What is the ratio of the area of triangle PXY to the area of parallelogram PQRS? Express your answer in the simplest form.

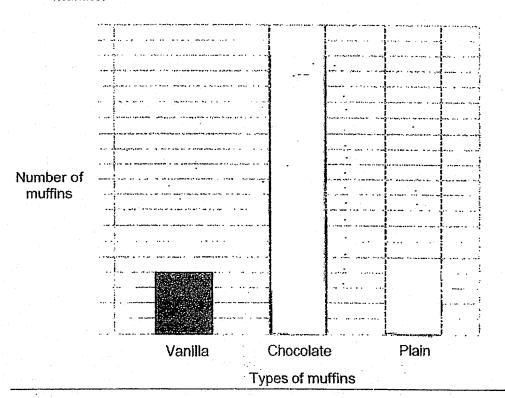
Ans: (b)

 $\frac{1}{4}$  of the muffins were either vanilla or plain.

There were twice as many vanilla muffins as plain muffins.

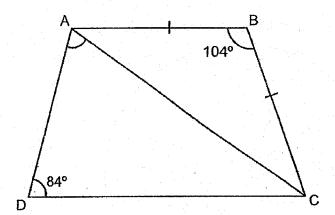


The different types of muffins are also represented by the bar graph below. Draw the bars for the number of chocolate muffins and plain muffins.



In the figure, ABCD is a trapezium, ABC is an isosceles triangle,
 ∠ADC = 84° and ∠ABC = 104°. Find ∠CAD.

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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 [ the end of each question and part-question. (45 marks) Ali, Ben and Chen have an average of 42 stamps. Ali has y stamps, Ben 6 has 4 times as many stamps as Ali and Chen has 27 stamps less than Ben. Find the number of stamps Chen has in terms of y. (a) How many stamps does Ali have? (b) Ans: (a) [1] [2] The ratio of the volume of water in Jug A to the volume of water in Jug B 7 is 8:3. After 50 ml of water was poured from Jug A to Jug B, Jug A had twice amount of water as Jug B. How much water was there in Jug B in the end?

(Go on to the next page)

[3]

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Ans:

		ox are 50-cent coins, 35% are 20- ns. The total amount of money in coins are there in the box?	
	en e		
:			
		Ans:	[3]
9		bags of different masses as show	vn below.
	Mass per bag 1-kg	\$4,40	
	2-kg	\$8.05	
	Z-KU	1 90.00	
	5-kg	\$19.90	
	5-kg		y to buy
	5-kg What is the least amount of	\$19.90	y to buy
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	5-kg What is the least amount of	\$19.90	y to buy

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Ans:	Figure 2  Ans:  Ans:  Alsyah and Jenny competed in a 200-m race. Both did not change thei speeds from start to finish. Alsyah ran at 8 m/s and Jenny ran at a speed 3 m/s slower than Alsyah. How far was Jenny from Alsyah wher	375	cm <sup>2</sup> . The r					
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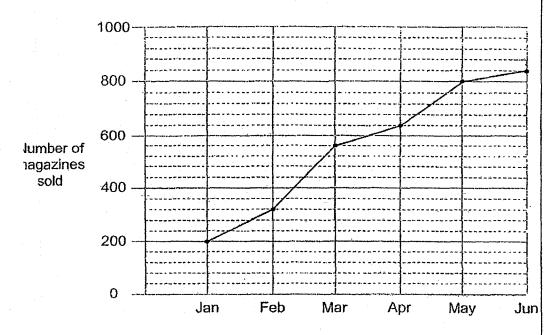
[3]

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Ans:

12 The graph below shows the number of magazines sold each month by a new publishing company from January to June.

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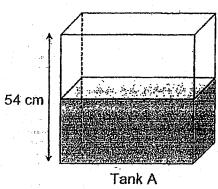
- (a) What was the percentage increase in the number of magazines sold in March compared to January?
- (b) What was the average increase in the number of magazines sold per month from January to June?

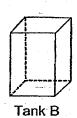
Ans: (a) [2]

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

Two rectangular tanks, A and B, are shown below. The height of Tank A is 54 cm. After Annie poured 41 472 cm<sup>3</sup> of water into an empty Tank A, it was  $\frac{4}{9}$  filled as shown below.

Do not write in this space





- (a) Find the base area of Tank A.
- (b) After Annie poured some water from Tank A into an empty Tank B, the height of the water level in Tank A decreased to 21.5 cm. Given that the base area of Tank B is 270 cm², find the height of the water level in Tank B.

Ans: (a) [1]

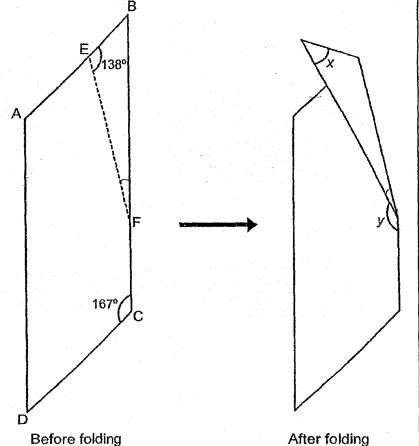
(b) [3]

Shiva has a piece of paper, ABCD, in the shape of a parallelogram. He folded it along the line EF as shown below. Given that  $\angle B \angle D = 167^{\circ}$ ,  $\angle BEF = 138^{\circ}$ , AE  $\beta$  and BFC are straight lines, find:

Do not write in this space

(a) ∠x,

(b) ∠y.



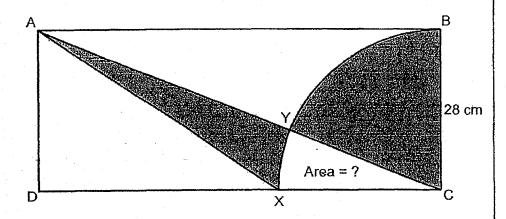
Ans: (a) [1]

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

In the figure below, ABCD is a rectangle and BCX is a quarter circle. The length of BC is 28 cm. The total area of the shaded parts of the figure is 514 cm<sup>2</sup>. Find the area of the unshaded part CXY of the figure.

Do not write in this space

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



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

16  $\frac{3}{8}$  of Abby's savings was \$100 more than  $\frac{1}{3}$  of Betty's savings. After Abby spent  $\frac{5}{8}$  of her savings and Betty spent  $\frac{1}{2}$  of her savings, Betty had \$30 more than Abby. Find Betty's savings at first.

Do not write in this space

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

		•	• •
0	000	000	
Figure 1	Figure 2	Figure 3	Figure 4

(a) The table shows the number of black and white buttons used for each figure. Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of black buttons	0	1	3	6	
Number of white buttons	1	4	9	16	
Total number of buttons	1	5	12	22	

[1]

- (b) A figure in the pattern has a total of 176 black and white buttons. What is the Figure Number?
- (c) A figure in the pattern has 784 white buttons. How many black buttons are there in that figure?

Ans:(b)	Figure		[2]
		·.	
(c)		19	[2]

End of Paper 2

SCHOOL: HENRY PARK PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT: MATH

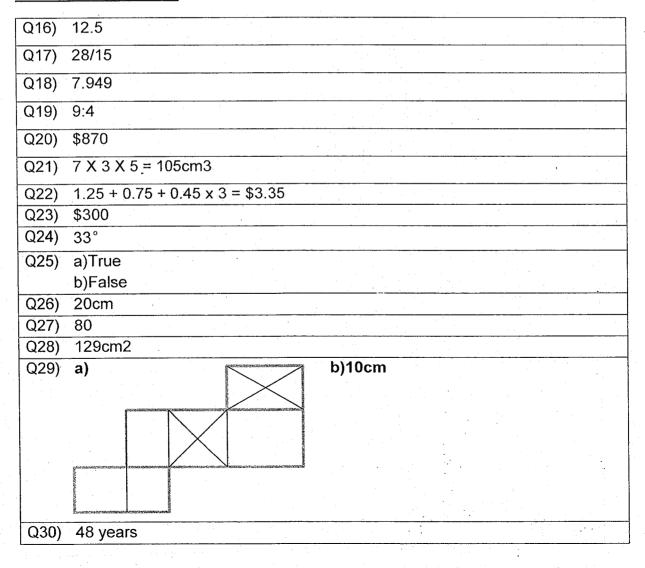
TERM: 2018 PRELIM

### PAPER 1 BOOKLET A

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

26.35.0	40 CJ# 14 1 600	Q12	Q13	Q14	Q15
ľ	2	1	3	3	2

# PAPER 1 BOOKLET B



# PAPER 2

Q1) 10:15

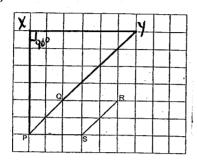
2:3

Q2) a)North-west

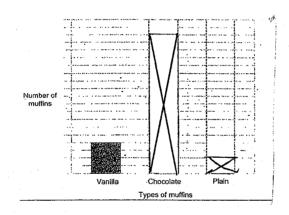
b)A

Q3) a)

b)3:1



Q4)



Q5) 
$$\angle BAD = (180^{\circ} - 104^{\circ}) \div 2 = 38^{\circ}$$

$$\angle$$
 CAD = 180° - 84° - 38° = 58°

b)
$$9y - 27 = 126$$

$$Y = 153 \div 9 = 17$$

$$11u \times 3 = 33u$$

C

В

11u 
$$11u \times 3 = 33u$$

$$2u = 50$$

$$u = 50 \div 2 = 25$$

$$25 \times 11 = 275 \text{ml}$$

Q8) 48

```
Q9)
       3 5kg + 1 1kg = 3 \times 19.90 + 4.40 = $64.10
        2 5kg + 3 2kg = 2 \times 19.90 + 3 \times 8.05 = $63.95
Q10) 375 \div 5 = 75
        3u = 75
        U = 75 \div 2 = 25
        U = 25 = 5
        (30+25) \times 2 = 110 \text{ cm}
Q11) 8-5=3
        200 \div 8 \times 3 = 75 \text{m}
Q12) a)560 - 200 = 360
       360/200 x 100 = 180%
        b)120 + 240 + 80 + 160 + 40 = 640
          640 \div 5 = 128
Q13) a)41472 \div 4 \times 9 = 93312
           93312 \div 54 = 1728cm2
        b)54 x 4/9 = 24
          24 - 21.5 = 2.5
          2.5 \times 1728 = 4320
          4320 \div 270 = 16cm
Q14) a)\angle 180^{\circ} - 167^{\circ} = 13^{\circ}
          \angleBFE = 180° - 138° - 13° = 29°
          \angle 180^{\circ} - 29^{\circ} \times 2 = 122^{\circ}
Q15) A + X = 28 \times 28 \times \frac{1}{2} = 392
        B + X = 28 \times 28 \times 22/7 \times \frac{1}{4} = 616
        A + B + 2 X = 1008
        A + B = 514
        2X = 1008 - 514 = 494
        X = 494 \div 2 = 247 \text{cm} 2
Q16) 8u \times 3/8 - 100 = 1/3 \times (6u+60)
        3u - 100 = 2u + 20
        U = 120
        120 \times 6 + 60 = $780
Q17) a)10,25,35
        b)11
        c)378
```

