## PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION, 2022

### **PRIMARY SIX**

## MATHEMATICS PAPER 1 (BOOKLET A)

NAME	:_ (	)
CLASS	:P6	
DATE	: 19 August 2022	

Total Time 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 the instructions carefully.
- 3. Answer all questions.
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. You are not allowed to use a calculator.

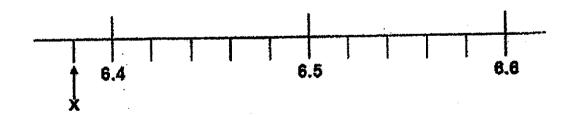
	Marks Obtained	/ N	Maximum Marks
PAPER 1(Booklet A)	<del></del>	1	20
PAPER 1(Booklet B)		.1	25
PAPER 2		<del>1</del>	55
TOTAL		1	100

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

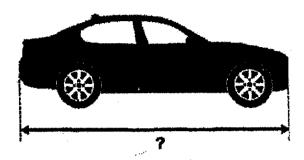
(20 marks)

- 1. Which of the following is one hundred and four thousand and two in numerals?
  - (1) 1 042 000
  - (2) 104 002
  - (3) 14 020
    - (4) 10 042
- 2. Which of the following is the same as 3050.cm?
  - (1) 0.305 m
  - (2) 30.05 m
  - (3) 30.5 m
  - (4) 3,05 m
- 3. Part of a scale is shown below. What is the value of the reading at X?

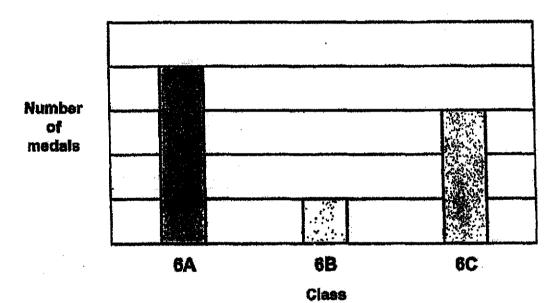


- (1) 8.39
- (2) 6.38
- (3) 6.34
- (4) 6.30

- 4. The diagram below shows a car.
  Which of the following could be the length of the car?
  - (1) 4.5 m
  - (2) 4.5 km
  - (3) 45 cm
  - (4) 45 m



5. The bar graph below shows the number of medals won by 3 classes during a Sports Meet.



What percentage of the medals was won by Class 6B?

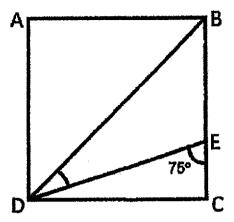
- (1) 12.5 %
- (2) 25 %
- (3) 35 %
- (4) 37.5 %

6. In the figure, ABCD is a square. DB and DE are straight lines. ∠DEC = 75°. Find ∠BDE.





- (3) 30°
- (4) 45°



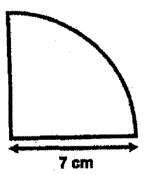
7. The shaded figure is a quarter circle of radius 7 cm. What is the perimeter of the shaded figure? Take  $\pi = \frac{22}{7}$ 







(4) 58 cm



8. During a sale, a chair was sold at \$210. This was 30% less than the usual price of the chair. What was the usual price of the chair?

(1) \$63

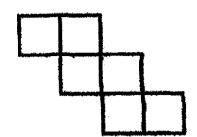
(2) \$147

(3) \$300

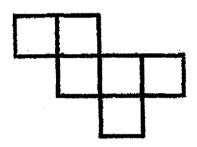
(4) \$700

### 9. Which of the following is not the net of a cube?

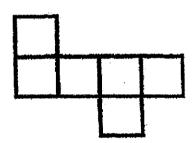
(1)



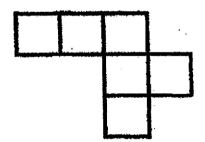
(2)



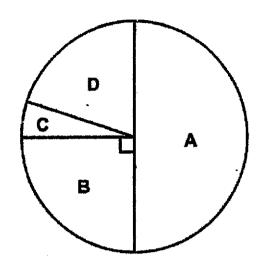
(3)



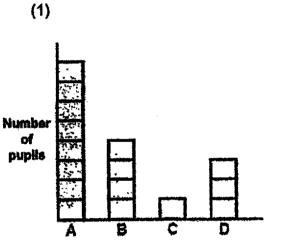
(4)

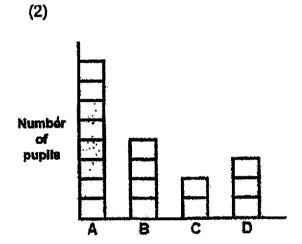


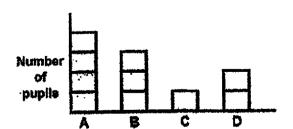
10. Some pupils were asked to choose one brand of pen from Brands A, B, C or D. The pie chart shows their choices. Half of the pupils chose Brand A.



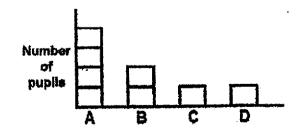
Which bar graph best represents the information in the pie chart above?







(3)



(4)

- 11. Mina has \$p. She has half as much money as Siti. Linda has \$7 less than Siti. How much money does Linda have?
  - (1) \$(2p-7)
  - (2) \$(2p+7)
  - (3)  $\$(\frac{p}{2}-7)$
  - (4)  $\$(\frac{p}{2}+7)$
- 12. Participants of a quiz must obtain at least a certain score to win a prize. There were 90 participants and the table below shows the number of participants with the following scores.

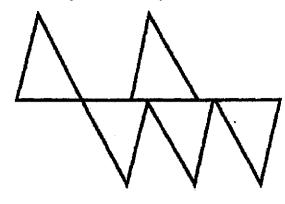
Score	Number of Participants
20	4
22	10
24	13
25	27
28	9
29	20
30	7

3

30% of the participants won prizes. From the table, what was the highest score of a participant who did not win a prize?

- (1) 29
- (2) 28
- (3) 25
- (4) 24

13. Figure 1 shows a triangle with a perimeter of 25 cm. The shortest side of the triangle is 5 cm. Figure 2 is formed using 5 such triangles.



5 cm Figure 1

Figure 2

Find the perimeter of Figure 2.

- (1) 125 cm
- (2) 120 cm
- (3) 115 cm
- (4) 110 cm
- 14. John had 5x packets of game cards. Each packet contained 7 game cards. After giving away 1 packet of game cards, how many game cards had he left?
  - (1) 28x
  - (2) 5x-1
  - (3) 35x 1
  - (4) 35x 7

15. A table with 4 columns is filled with numbers in a certain pattern. The first five rows of the table are shown below.

	Column A	Column B	Column C	Column D
Row 1	1		2	
Row 2		4		3
Row 3	· 5		6	
Row 4		8		7
Row 5	9		10	
*				

In which column will the number 923 appear?

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

End of Booklet A

# PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION, 2022

### **PRIMARY SIX**

### MATHEMATICS PAPER 1 (BOOKLET B)

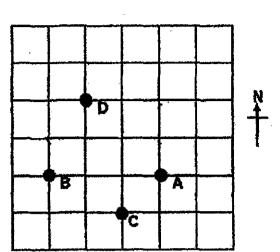
ļ	Booklet B		/ 25
·. [		Marks Obtained	Maximum Marks
4. You a	re <b>not</b> allowed to use a	calculator.	
3. Answ	er all questions.		
2. Follow	v all the instructions car	efully.	
1. Do no	t turn over this page un	itll you are told to do so.	
INSTRU	CTIONS TO CANDIDA	TES	
Total Tin	ne f <b>or Booklets A an</b> d B	: 1 hour	
DATE	: 19 August 2022		
∩LASS	:P61	_	
NAME	•	( , )	

Que	stions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. questions which require units, give your answers in the units stated. (5 marks)	Do not write in this space
16.	Find the value of (24 – 9 + 3) x 5	
	Ans:	
17.	Find the value of $\frac{2}{3} + 8$	
	Give your answer as a fraction in the simplest form.	
	Ans:	-
18.	Shawn left his home at 5.50 a.m. and travelled for $1\frac{1}{4}$ h to reach his school. What time did Shawn reach his school?	
•	ANIST BILLS GIG CHEMIN INCOME.	
	• _	
	Ans:a.r	n. ]

19.	Find $\angle p$ in the figure below.		Do not write in this space
	102° 38°		
	Ans:	٥,	
20.	In a school hall, the number of girls was 40% less than the number of boys.  There were 408 children altogether. How many girls were there in the hall?		
		- 1	
	Ans:		

ansı	stions 21 to 30 carry 2 marks each. Show your working clearly and write you wers in the spaces provided. For questions which require units, give your answers e units stated.  (20 marks)	in this space
21.	Find the value of	
	(a) $\frac{7}{8}$ $\frac{2}{3}$	
	Ans: (a)	
	(b) $5m-9-m+2m+12$	
		****
	Ans: (b)	
22.	In the diagram below, the cubical tank is half filled with water.  What is the volume of the water in the tank?  Give your answer in litres.	
	12 cm	
	· .	
	Ans:	_{'

23. The square grid shows the positions of points A, B, C and D.

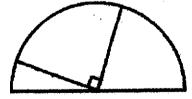


(a) Ravi walked directly from point A to point B in a straight line. In which direction did Ravi walk?

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

(b) Jane was standing at a location south-east of point D and north of point C. Mark Jane's position on the square grid with an X.

24. The figure below is made up of a semicircle and a quarter circle, both of radius 10 cm. Find the area of the shaded part. Take  $\pi = 3.14$ .

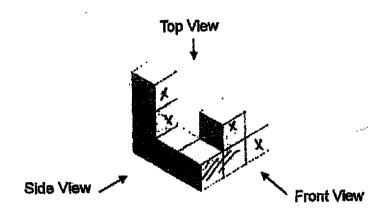


Ans: \_\_\_\_cm<sup>2</sup>

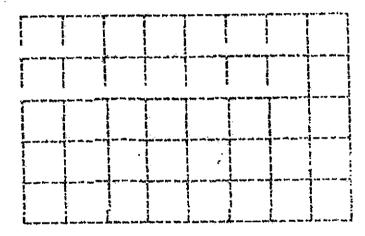
Do not write in this space

25. 8 identical cubes are stacked to form the following solid.

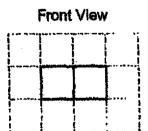
Do not write in this space



(a) Draw the top view of the solid in the square grid below.



(b) Find the least number of cubes that can be removed from the above solld such that the new solld has the following front view:



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

26. Norman's daily allowances for a particular week are shown in the table below.

Day	Mon	Tue	Wed	Thur	Frl	Sat	Sun
Amount (\$)	8	10	8	5	в	5	0

Find his average daily allowance for the week.

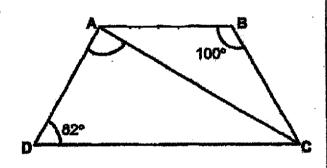
Do not write in this space

Ans: \$\_

27. ABCD is a trapezium. AB is parallel to DC. AB = BC.

 $\angle$ ABC = 100° and  $\angle$ ADC = 62°.

Find ∠CAD.

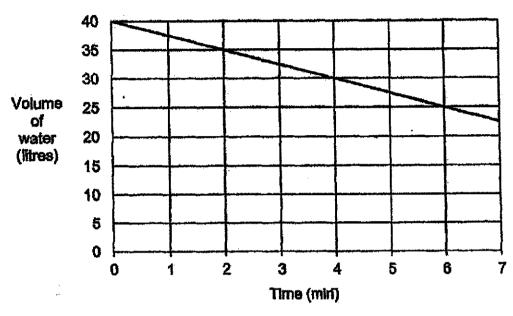


Ans:

28. A tank, which was completely filled with water at first, started leaking. Water flowed out of the tank until it was completely emptied.

Do not write in this space

The line graph shows the volume of water in the tank during the first 7 minutes.



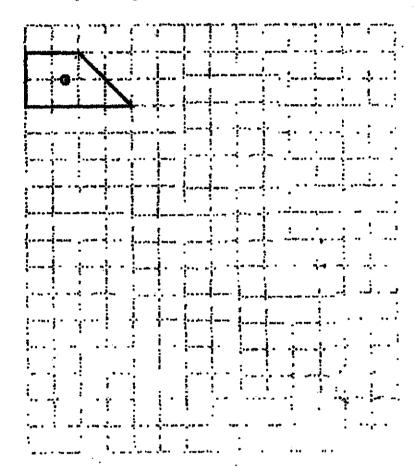
. . At this rate, how long did it take to empty the tank?

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

29. A trapezium G is drawn by joining dots on the square grid below with four straight lines. In the same way,

Do not write in this space

- (a) draw a rectangle with the same area as G. Label the rectangle R.
- (b) draw a parallelogram with the same perimeter as G. Label the parallelogram P.



30. A box contained red, blue, yellow and green beads. The table below provides information about the number of each type of beads. The number of red beads was covered by an ink blot.

Do not write in this space

Colour	Number of Beads		
Red			
Bļue	10 %		
Yellow	1 5		
Green	More than 30%		

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

Statement	True	False	Not possible to tell
There are 105 beads in the box altogether.			
40% of the beads are red.			
There are more red beads than green beads.			

End of Booklet B

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
1. Find the area of Triangle ABC.	
20 cm 17 cm 7 cm 8 9 cm	
Ans:am²	
2. The total cost of a handphone and a laptop is \$1185. The handphone costs $\frac{2}{3}$ as much as the laptop. What is the cost of the handphone?	
	<u> </u> 
Ans: \$	

AEB is an equilateral triangle and FBC is a straight line. Do not write 3. in this space Find \( \mathbb{B}\)DC. Ans: The sum of three different 3-digit numbers is 375. The smallest number is 120. What is the biggest possible difference between the other two numbers? Ans: The table below shows how Aaron, Bernice and Charlotte shared the cost of a 5. present for their mother. They paid a total of \$170 for the present. Child Amount (\$) Aaron 4m Bernice 2m + 3Charlotte m-1Find the value of m. 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)

Do not write in this space

6. Muthu cycled from point A to point B at 375 m/min. Then, he used the same amount of time to cycle from point B to point C. What was his average speed for the entire journey? Express your answer in m/min.



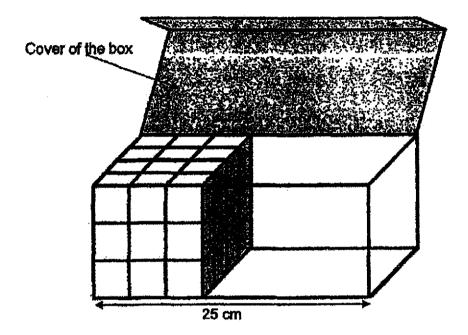
Ans: 375W/Min [3]

200 30 30

7.	The participants of a run were divided equally into Group A and Group B. The ratio of the number of boys to the number of girls was 1:2 in Group A and 4:3 in Group B. A total of 345 girls took part in the run. How many more boys were there in Group B than in Group A?	in this space
	•	
		response and the second
	· ·	
	•	
		· ·
	Ans:[3	

8. Amy packed some 3-cm cubes into a box shown below. She wanted to fill the remaining space with as many 2-cm cubes as possible and still be able to close the cover of the box. How many 2-cm cubes would she need?

Do not write in this space



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

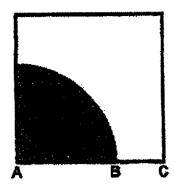
9.	The actual average income of a grecorded the income of these adults, \$2400 when it should have been average income as \$3100. How man	she wrongly ke 4200. As a re	yed in one adult's suit, Ms Tan calc	Income as ulated the	Do not write in this space
				erine a de la companie de la compani	
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				na e deligija propinski provinski provinski provinski provinski provinski provinski provinski provinski provin	
				and the state of t	
					· .
			Ans:	[3]	

10.	At fi	rst, Mr Ahmad had a total of 600 bov	wis and plates in his shop.	Do not write				
	He	sold $\frac{3}{5}$ of the bowls and 124 plates.	After that, Mr Ahmad had thrice as many	in this space				
		bowls as plates in his shop.						
	(a)	What was the ratio of the number of the numb	of bowls sold to the number of bowls left ranswer in its simplest form.					
	•							
			Ans: (a) [1]					
	(b)	How many plates and bowls did he	sell altogether?					
-								
			٠.					
		·						
				Lamination in the state of the				
			Ans: (b)[3]					
	·							

11. The figure is made up of a square and a quarter circle.

The ratio of the length of AB to the length of AC is 2:3.

Do not write in this space



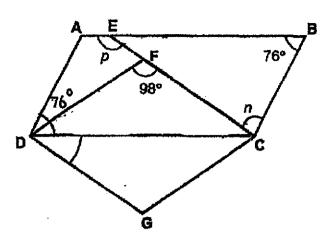
(a) The perimeter of the shaded part is 16 cm shorter than the perimeter of the unshaded part. What is the length of AC?

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

(b) What percentage of the square is shaded? Round your answer to 2 decimal places. Take  $\pi=3.14$ 

12. ABCD is a parallelogram and DFCG is a rhombus. EFC is a straight line.





(a) Find ∠n.

Ans: (a) [2]

(b) Find ∠p.

Ans: (b) [1]

(c) Circle the word that describes triangle BCE.

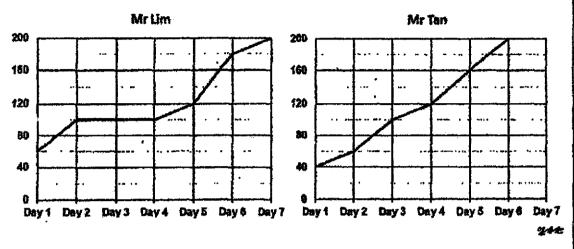
Triangle BCE ( is / is not ) an isosceles triangle.

ĻĽ,

13.	Sue Afte had	Do not write in this space	
	(a)	How many stickers did Peggy give to Esther?	
•	(b)	Ans: (a)[1]  How many stickers did the three girls have altogether?	
page and part of		Ans: (b)[3]	

14. Mr Lim and Mr Tan each had 200 identical pots to sell. Both started seiling the pots on the same day. The line graphs show the total number of pots sold by them by the end of each day.

Do not write in this space



(a) Who took fewer days to sell half of his pots?

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

(b) How many pots did Mr Lim sell on Day 6?

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

(c) The original price of each pot was \$70. On the day when Mr Tan had sold 80% of his pots, Mr Lim decided to offer a 15% discount for his remaining pots. How much did Mr Lim collect from the sale of these remaining pots?

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

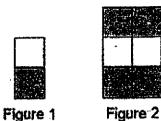
The its re	figure below shows the net o ctangular faces is 84 cm² an	of a solld with a square base. The area of one of d the area of one of its square faces is 196 cm <sup>2</sup> .	Do not write in this space
	84 cm <sup>2</sup>		
	196 cm²		
(a)	Name the solid.		
		Ans: (a)[1]	
(b)	Find the volume of the solid		
·		Ans: (b)[2]	
(c)		olid and stacked them one on top of another. sible height of the new solid formed?	
		•	1
			:
			:
		Ans: (c)[1]	
		12	J <u>L</u>

15.

16. The first four figures of a pattern are shown below.

Do not write in this space









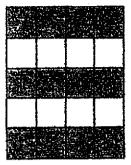


Figure 3

Figure 4

The table below shows the number of squares used for each figure.

Figure Number	Number of grey squares	Number of white squares	Total number of squares
1	1	1	2
2	4	2	6
3	6	6	12
4	12	8	20
5	(a)	(a)	30

[1]

- (a) Fill in the numbers for Figure 5.
- (b) How many white squares are there in Figure 15?

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

Continue Q16 on the next page.

(c)	How many grey squares are there in Figure 80?	Do not write in this space
	- arter	
	<del>-</del>	
		Sales and the sa
		-
	Ans: (c)[2]	
		اـــــا

7.	Lily	Do not write	
	Lily	had equal number of fifty-cent coins and twenty-cent coins. $\frac{1}{4}$ of Megan's coins	in this space
		e fifty-cents coins and the rest of her coins were twenty-cent coins.	
	Lily	had \$13.50 more than Megan.	
	(a)	How many coins did each girl have?	
	,u,	How many could all such givensive.	
		·	
		Ans: (a)[2]	
	(b)	Megan decided to exchange all her twenty-cent coins for fifty-cent coins of the	
		same value. What was the percentage increase in her number of fifty-cent	
		coins?	
	•		
			r
		Ans: (b)[2]	
	· · · · · · · · · · · · · · · · · · ·	End of Paper 2	<u> </u>

1

SCHOOL: Paya Lebar Methodist Girls

LEVEL :

**PRIMARY 6** 

SUBJECT:

**MATH** 

TERM

: 2022 Prelim

#### PAPER 1 BOOKLET A

	6 65			1016		20 July 20 Jul	342	
2 3	2	1	1	3	2	3	4	1

	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1	2	3	4	4

#### PAPER 1 BOOKLET B

	Q16)	(24 – 9	% 3) x 5 = (24 - 3) x 5 = 21 x 5 = 10	5
1				

Number of girls =  $25.5 \times 6 = 153$ 

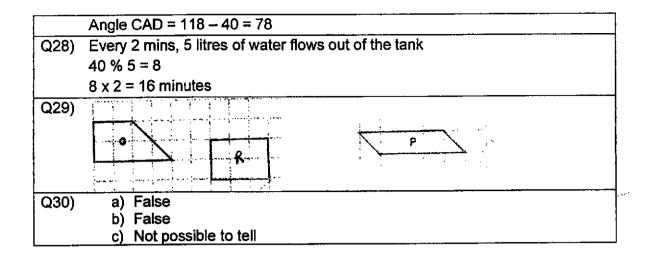
b) 
$$5m-9-m+2m+12=6m+3$$

#### Q23) a) North-west

### b) X lies one right, one unit down of D

SSSSSS

b) 4

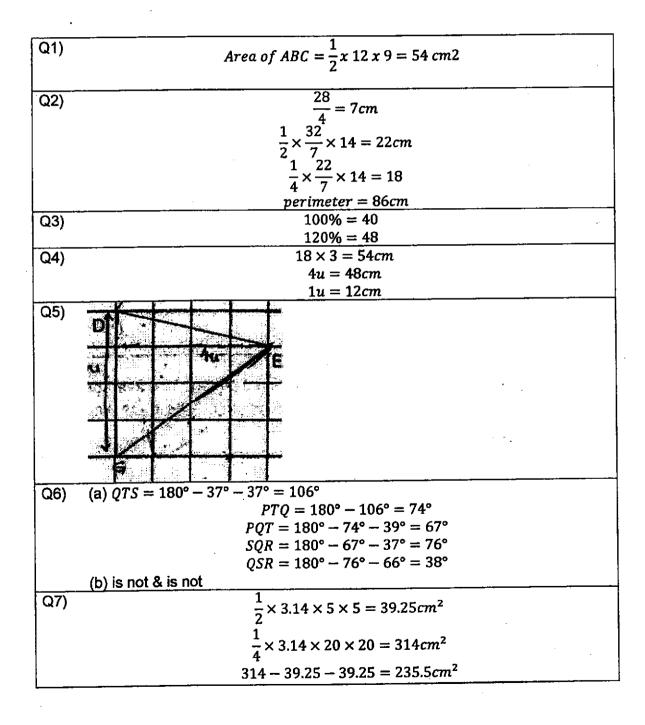


### PAPER 2

Area of ABC = $\frac{1}{2}x \ 12 \ x \ 9 = 54 \ cm2$	
\$1185 ÷ 5 = \$237	
i i	
<b>4</b>	
$48^{0} + 60^{0} = 108^{0}$	
$108^{0} - 22^{0} = 86^{0}$	
875 - 120 = 255	
255 121 = 134	
134 – 121 = 13	
170 = 4m +m-1+2m+3	
= 7m +2	
·	
M = 24	
4.5 KH + 575 - 12 Hill)	
	•
Average speed = (250 + 375) /2 = 312.5 m/min	·
A B	
G:B G:B	
2:1 3:4	
14:7 9:12	
345 = (14+9)u=23u	
U = 15	
5u = 75	
·	
25 -9 = 16	
16/2 = 8	
120 - 6	
	108° - 22° = 86°  875 - 120 = 255 255 - 121 = 134 134 - 121 = 13  170 = 4m +m-1+2m+3 = 7m +2 7m = 168 M = 24  4.5 km ÷ 375 = 12 min 3 km ÷ 12 = 250m/min Average speed = (250 + 375) /2 = 312.5 m/min  A B G:B G:B 2:1 3:4 14:7 9:12 345 = (14+9)u=23u U = 15 5u = 75

9/2 = 4 R 1   8x6x4=192		0/0 4.72.4
Q9)		
3150-3100 = 50     1800+ 50=36     Q100		0X0X4=192
3150-3100 = 50     1800+ 50-36     2100	00)	
1800+ 50=36	(Q9)	
Q10)  a) 5x +(U+124)=600 2x+u=476-3x 3u+u=476 U=56 3x=4,5u=252 252:168 3:2  b) 252+124=376  Q11)  a) 16=(6u+2u)-4u = 4u U=4 AC = 3u=12 cm  b) Shaded area = 1/4x8x8x3.14=50.24 Square = 12x12=144 Percentage shaded = 50.24/144 x 100% = 34.9%  Q12)  A) (180-98)/2 = 41 Angle n = (180-76)-41=63 b) angle p = 76+63=139 c) is not  Q13)  a) 40-12=28 b) 1u=40+28+40=108 7u=108x7=756. 756+12=768  Q14)  a) Mr Lim b) 180-120=60 c) 80/100x200=160 200-120=80 85%x70=59.50 59.50x86=\$4760  Q15)  a) Cuboid b) 14x14x6=1176cm³		
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b) 14x14x6=1176cm <sup>3</sup>	015	a) Cubaid
	(C1D)	
r : C) 3/1457/13666	ŀ	
( ) 14XJ-70GH	{	c) 14x5=70cm
040)	040	-> 00.45
Q16) a) 20, 15	(Q16)	a) 20, 15

	b) Total = 15x16=240 240÷2=120	
Q17)	Grey Square -> 3200+80=3280 White -> 6480-80=6400 6400/2=3200 Total → 80x81=6480	



Q8) 
$$b = \frac{1}{2} of \ area \ of \ x \\ area \ of \ x = 5 \times 2 = 10 \\ area \ of \ c = 5 - 1 = 4$$
- Not possible to tell - False - True

Q9) 
$$\frac{1}{4} \times \frac{22}{7} \times 14 = 11cm$$

$$11 + 7 = 18cm$$

$$125 - 11 = 114$$

$$114 - 21 - 21 = 72cm$$

$$\frac{7}{2} = 36cm$$

Q10) 
$$\frac{1}{2} \times \frac{3}{14} \times 8 \times 8 = 110.48cm^{2}$$

$$(16 \times 16) \times 2 = 512cm^{2}$$

$$16 \times 8 = 128cm^{2}$$

$$16 \times 8 = 128cm^{2}$$

$$total = 128 + 100.48 + 100.48 + 512 = 840.96cm^{2}$$

Q11) (a)  $10u = $2000$ 

$$3u = $600$$
(b)  $March \ transport = \frac{10}{100} \times 2000 = $200$ 

$$shopping = \frac{60}{100} \times 2000 = $1200$$

$$food = $2000 - $1200 - $200 = $600$$

$$April \ transport = $200$$

$$shopping = \frac{90}{100} \times $1200 = $1080$$

$$80\% = $1080 + $2000 = $1080$$

$$80\% = $1080 + $200 = $1280$$

$$100\% = $16 \times 100 = $1600$$

Q12) (a)  $60 + 5 = 15$ 
(b)  $23 + 2 = 11.5$ 

$$4 + 2 = 2$$

$$5 + 2 = 2.5$$

$$11 \times 2 \times 2 = 44$$
Q13) (a)  $AOB$ 
(b)  $OBA = (180 - 90) + 2 = 45$ 

$$OBC = 58$$

$$ABC = 58 - 45 = 13$$
(C)  $BOC = 180 - 58 - 58 = 64$ 

$$AOC = 90 - 64 = 26$$

choco left =  $\frac{1}{6}$  of  $\frac{3}{4} = \frac{1}{8}$ butter left =  $\frac{1}{5} - \frac{1}{8} = \frac{3}{40}$ butter sold =  $\frac{1}{4} - \frac{3}{40} = \frac{7}{40}$ Q14)  $\frac{7}{40} = 105$   $\frac{1}{40} = 15$   $\frac{40}{40} = 600$ Q15) (a) m: w = 23:523u = 46 $1u = 46 \div 23 = 2$ 8u = 16(b)  $\frac{1}{3}$  of M = 16 $men = 16 \times 3 = 48$ 4u = 483u = 36Q16) (a) jerry had 6 more kaya buns =  $6 \times 50$ cents = 300cents  $total\ diff = 300cents + 90cents = 390cents$ per diff = 80cents - 50cents = 30cents $no. of buns = 390cents \div 30cents = 13$ (b) jerry = 13 + 6 = 19 $cost = 19 \times 50cents = $9.50$ Q17) (a)  $P = 3 \times 4 = 12cm$