METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2023 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.

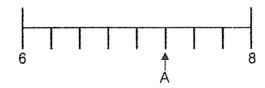
Name:		()
Class:	Primary 6		
Date:	21 August 2023		

This booklet consists of 8 printed pages including this page.



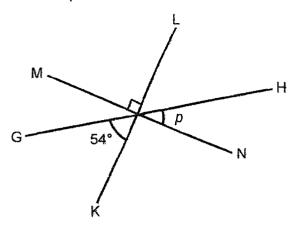
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1 What is the value of the digit 5 in 45 678?
 - (1) 50
 - (2) 500
 - (3) 5000
 - (4) 50 000
- 2 Round 4.567 to 2 decimal places.
 - (1) 4.50
 - (2) 4.56
 - (3) 4.57
 - (4) 4.60
- 3 In the number line, what is the number represented by A?



- (1) 6.5
- (2) 6.75
- (3) 7.2
- (4) 7.25

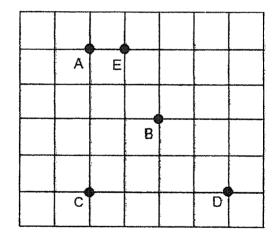
4 GH, KL and MN are straight lines. Find ∠p.



- (1) 27°
- (2) 36°
- (3) 54°
- (4) 73°

5 Five landmarks A, B, C, D and E on a map are shown in the square grid below.

Neha is at landmark B. She faces east and turns 135° anti-clockwise.



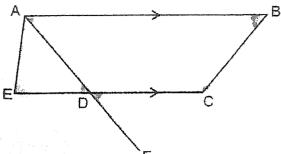
7

Which landmark is Neha facing now?

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

In the figure below, ABCD is a trapezium. AF and EC are straight lines.

Peishan wrote four statements to describe the figure.



Statement A: ∠AED = ∠ABC

Statement B: ∠EDA = ∠FDC

Statement C: ∠ABC + ∠ECB = 180°

Statement D: ∠DAB + ∠ABC = 180°

Which of the following statements are true?

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

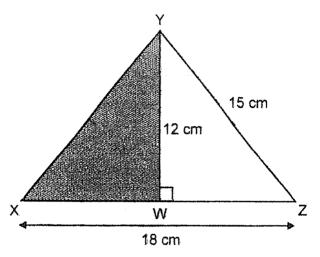
7 Arrange the following fractions from the smallest to the largest.

$$\frac{3}{2}$$
, $1\frac{5}{9}$, $\frac{6}{5}$

	<u>Smallest</u>		Largest
(1)	<u>6</u> 5 '	$\frac{3}{2}$	1 5
(2)	1 5 ,	$\frac{3}{2}$,	<u>6</u> 5
(3)	$\frac{3}{2}$,	$\frac{6}{5}$.	1 <u>5</u>
(4)	<u>6</u> 5 '	1 <u>5</u> ,	$\frac{3}{2}$

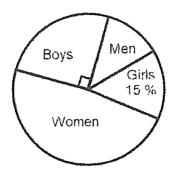
8 The figure below shows an isosceles triangle XYZ, where XY = YZ.

WY = 12 cm, YZ = 15 cm and XZ = 18 cm. Find the area of triangle WXY.



- (1) 216 cm²
- (2) 108 cm²
- (3) 90 cm²
- (4) 54 cm²
- There are 36 pens in a box. $\frac{1}{3}$ of them are red, 50% are blue and the rest are green. Express the number of green pens as a fraction of the number of blue pens.
 - (1) $\frac{1}{2}$
 - (2) $\frac{1}{3}$
 - (3) $\frac{1}{4}$
 - (4) $\frac{1}{6}$

The pie chart shows the number boys, girls, men and women who were in a cinema. There were 180 girls in the cinema. How many boys were there?



- (1) 25
- (2) 60
- (3) 300
- (4) 360

11 Sandy is given a total of \$30 to spend from Monday to Friday.

Every day, she spends \$4 on food, \$q on transport and saves the rest.

How much does she save each week?

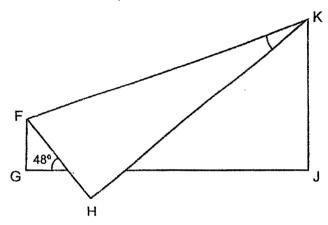
- (1) \$(130-5q)
- (2) \$ (30 4q)
- (3) \$ (26 q)
- (4) \$(10-5q)

12 Lisa paid \$18.90 for 3 identical files and 3 identical pencils. Howard paid \$10.50 for 2 such files and 1 such pencil. How much did each file cost?

- (1) \$3.15
- (2) \$3.50
- (3) \$4.20
- (4) \$7.00

- The ratio of Tianwei's height to Bala's height is 6 : 5.

 Bala is 10/11 as tall as Chelsea. What is the ratio of Tianwei's height to Chelsea's height?
 - (1) 5:11
 - (2) 6:11
 - (3) 10:11
 - (4) 12:11
- 14 In the figure below, a rectangular piece of paper was folded as shown. Given that \angle GHF is 48°, find \angle FKH.



- (1) 21°
- (2) 42°
- (3) 48°
- (4) 69°

15	Dalia has 30 more stickers than Huda at first. Dalia gave 40% of her stickers
	to Huda. Then, Huda gave 50% of her stickers to Dalia. In the end, Dalia has
	48 more stickers than Huda. How many stickers did Dalia have at first?

- (1) 24
- (2) 48
- (3) 50
- (4) 80

(Go on to Booklet B)



METHODIST GIRLS' SCHOOL (PRIMARY)

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PRELIMINARY EXAMINATION 2023 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:	21 August 2023		

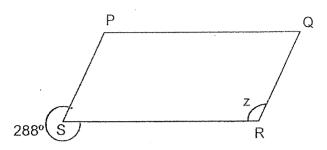
Paper 1 Booklet B

This booklet consists of 8 printed pages including this page.

ated.	(5 marks)	
6 Express $6\frac{7}{100}$ as a decimal.		
	Ans:	
7 Write down all the common r	multiples of 3 and 5 that are smaller than 40.	
	Ans:	
Find the value of $\frac{2}{5} \div 12$.		
		
	Ans:	
3 Simplify 11 + 5y - 2y + 4y.		
		<u> </u>
	Ans:	

20 PQRS is a parallelogram.

Find ∠z.

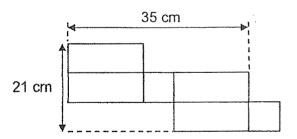


Do not write in this space.

Ans:	0
MHO.	

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 The figure, not drawn to scale, shows the net of a cuboid. The cuboid has a square base. Find the volume of the cuboid.



Ans:		cm ³
------	--	-----------------

22 Mrs Pandi wants to send letters overseas by airmail.
 The airmail rates to two countries are shown in the table below.

First 25 g

Every additional 10 g or less

Airmail Rates							
	Thailand	Australia					
	\$0.90	\$1.50					

\$0.20

Mrs Pandi wants to send a letter weighing 33 g to Thailand and a letter weighing 42 g to Australia. How much will she need to pay in total?

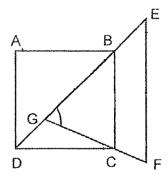
write in this space.

Do not

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

\$0.30

23 ABCD is a square. EFG is an isosceles triangle where EF = EG. DGBE and GCF are straight lines, BC is parallel to EF. Find ∠EGF.



Ans:	0		

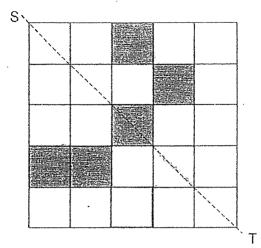
24	The figure is formed by 3 identical quarter circles and a triangle. The radius of each quarter circle is 8 cm. Find the area of the figure. (Leave your answer in terms of π)						circle is 8 cm. Find the area of the figure.		rcle is 8 cm. Find the area of the figure.				
									and a little with a little wit				
		An	ns: _					cm²	O.Linglace 727-4-4984-4				
25	Figure ABCD is drawn on a square g	ırid.				,							
	* * * * * * * * *	ф	٥	٥	P	۵	ð						
	C	és.	\$	ø	8	â	Þ						
	* B < * D · * · ·	ą	٠	ø	ė	•	g						
		4	왕	*	*	÷	ø						
	, , , , , , , , , , , , , , , , , , ,	P			Q	۰	5						
	By joining the dots on the grid with s	traigh	t line:	S,									
	(a) draw and label triangle PQR, su and without overlapping.	ch tha	it it h	as th	e san	ne ar	ea as	ABCD	Usi, in a second				
	(b) draw and label a parallelogram than AD.	ADEF	suct	that	DE i	s sho	orter						
	**												

26	the figure shows a cuboid with a square base of area 64 cm ² . The area of the shaded face is 72 cm ² . Find the height of the cuboid.	write in this space:
	64 cm ²	· ·
	Ans: cm	
27	Lishi pressed a calculator to multiply a 3-digit number by a 1-digit number. For the 1-digit number, she made a mistake by pressing a wrong number. She obtained an incorrect product of 624 which is $\frac{3}{4}$ of the correct product. What is the smallest possible value of the 3-digit number?	
	Ans:	
		The Company of the Co

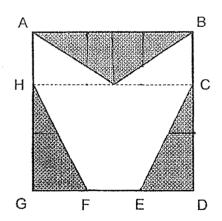
28 There are 5 shaded squares in the figure.

Shade 3 more squares to form a symmetric figure with ST as the line of symmetry.

Do not write in this space.



29 ABDG is a square. Given that BC = DE = EF = FG = AH, what fraction of the figure is shaded?



Ans:	
------	--

30 A player has to score an average of 18 points and above over 5 rounds of a game to qualify for the next level.

Do not write in this space.

Round	Score
One	20
Two	15
Three	25
Four	15
Five	?

What is the lowest score Mathew can get in the fifth round in order to qualify for the next level?

Ana		
Ans:		

END OF PAPER

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2023 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.

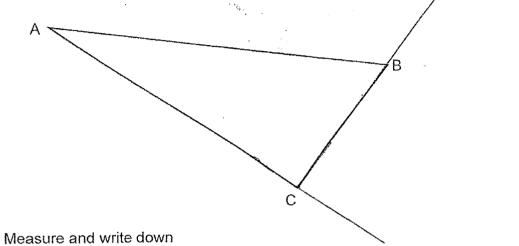
The use of an approved calculator is expected, where appropriate.

Name:		()	Paper 1 Booklet A	/ 20
Class:	Primary 6 21 August 2023		Paper 1 Booklet B	/ 25
Date: Parent's	Signature:		Paper 2	/ 55
	•		TOTAL	/ 100

This booklet consists of <u>17</u> printed pages including this 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 (10 marks) answers in the units stated.

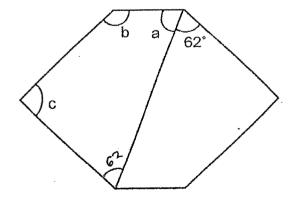
Do not write in this space



- the length of BC (a)
- the size of ∠ACB (b)
- Ans: (a) _____
- Ans: (b) _____



The figure below is made up of 2 identical 4-sided figures. 2 Find the sum of $\angle a + \angle b + \angle c$.



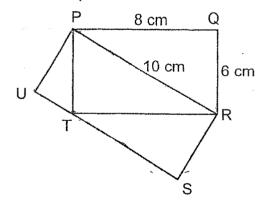
Ans:

3 Kenny took 3 hours to paint 3 bedrooms. He took the same amount of time to paint the first 2 bedrooms. He took 15 minutes longer to paint the third bedroom than the first. How many minutes did he take to paint the third bedroom?

Do not write in this space

Ans:	min

4 In the figure below, PQRT and PRSU are rectangles. PQ = 8 cm, QR = 6cm and PR = 10 cm. Find the length of RS.



\ns: c	cm
--------	----

The cube in Figure 1 is formed by folding the net shown in Figure 2.

Do not write in this space

Figure 1 Figure 2

Which of the faces below is represented by X in Figure 1?

Circle your answer.

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

Do not write in this space

6 Mr Raja paid a total of \$1406.40 for a laptop and a camera at a sale. The price of the camera before discount was \$864.

Sale!

1st item 10% discount

2nd item 20% discount

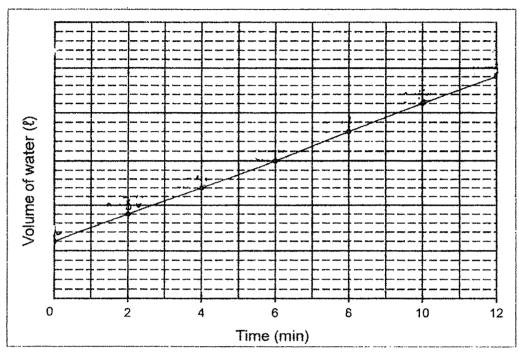
(Price of the 2nd item must be equal or less than the 1st item.)

What was the price of the laptop before discount?

Ans:	[3

A tank with a capacity of 1200 ℓ was $\frac{1}{10}$ - filled with water at first. Then, Tony turned on the tap to add more water to the tank. The line graph below shows the volume of water in the tank over 12 minutes after the tap was turned on.

Do not write in this space



(a) What was the volume of the water in the tank at first?

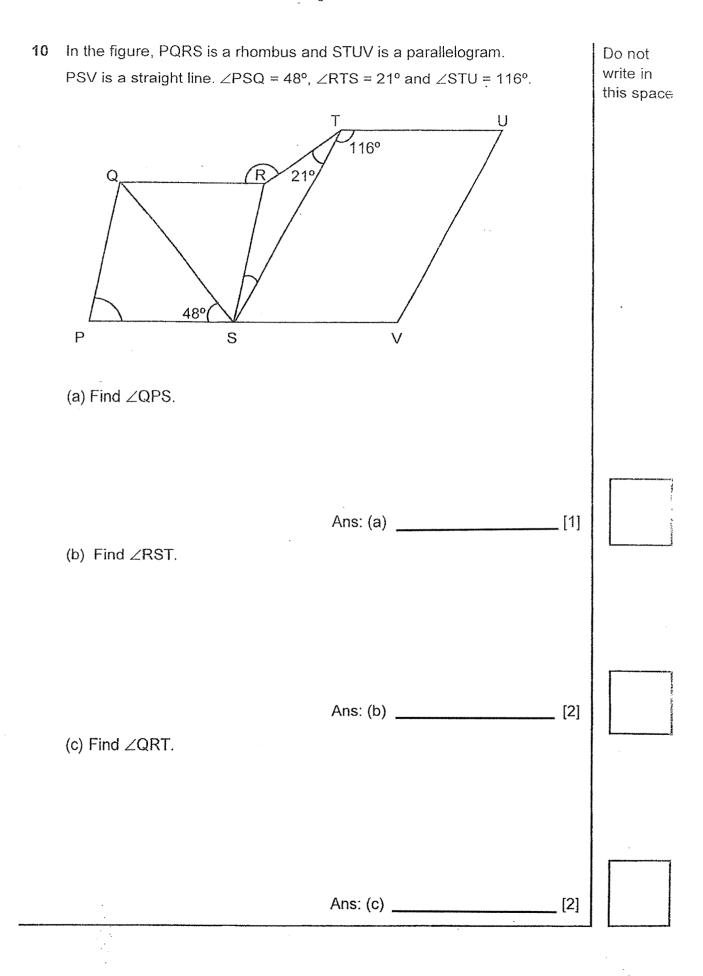
Ans: _____ [1]

(b) What was the volume of water in the tank after 18 minutes?

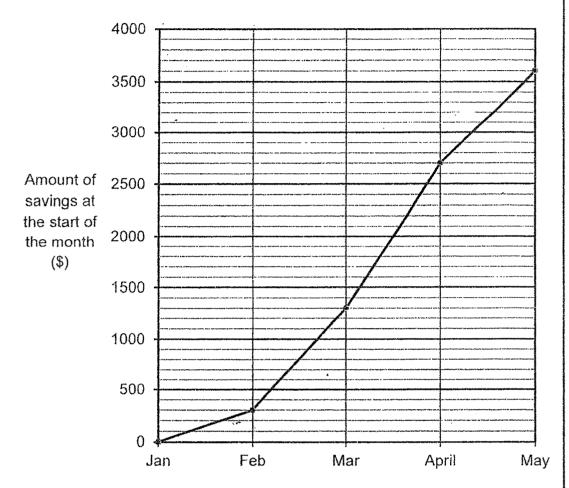
Ans: _____[3]

8	Kelly bought a total of 40 pieces of squares and rectang She cut all the squares into 3 rectangles. She now has a 92 rectangles. How many pieces of rectangular craft pa	a total of write	
		,	
The state of the s			
	Ans:	[3]	

9 Th	e graph below shows the mass of a cup when empty and when errent combinations of objects A, B and C are placed in the cup.		Do not
	400		write in this space
	300		
	(b) 200		
	100		
	0 1 B C A B B		
(a)	What is the mass of the empty cup?		
(b)	Ans: (a) What is the mass of object A?	_[1]	
. ,	•		·
	Ans: (b)	[2]	
(c) '	Vhat is the average mass of objects A, B and C?		
	Ans: (c)	[2]	



Tom wanted to buy a new television and started a 4-month savings plan. The line graph shows the total amount of savings at the start of each month.

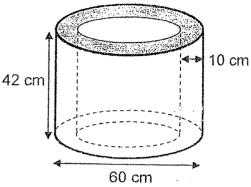


(a) The amount of savings for each month can be represented by the pie Do not chart below. Label each part of the pie chart with the month that write in corresponds to the amount of savings for that month. [2] this space Month: Month: Month: Month: (b) What was the percentage increase in the amount of savings from the end of January to the end of February?

Ans: (b) _

The figure shows a cylinder which is hollow in the middle and has a thickness of 10 cm. (Taking $\pi = 3.14$.)

Do not write in this space



(a) Find the area of the shaded face.

Ans:	(a)	ſ	1	1
	` '	ı	Ξ.	

(b) Randall dipped the entire cylinder into red paint. What is the surface area of the cylinder that is painted red?

Ans: (b)

[2]

13		t office and a library are 360 m apart. They are located between	Do not
		house and Nelson's house as shown below. The post office is	write in
	Схаси	ly half-way in between Ali's house and Nelson's house.	this space
Δ	√li's hou	use Post Nelson's ho	ouse
4		Office Library	>
		360m	The control of the co
	library	lay, Ali and Nelson started jogging from their own house towards at the same time. They met each other at the library. Nelson jogm/min while Ali jogged at a speed 40 m/min faster than Nelson.	1
	(a)	How much further did Ali jog than Nelson?	
			No. of the control of
	a" ·		
		Ans: (a)	[1]
	4.		
	(b)	How far is Nelson's house from the library?	
	,	Ans: (b)	[3]
	,		3 5

14 Six identical rectangular boxes can be stored in a cupboard 1.5 m high. Do not Two arrangements are shown below. The arrangement in figure A leaves write in a 30-cm gap at the side. The arrangement in figure B leaves a 13-cm gap this space at the side and another gap at the top. Figure A Figure B 13 cm 30 cm (a) In the arrangement shown in Figure B, what is the width of the gap at the top? Ans: (a) _____ _ [3] What is the width of the cupboard in metres? (b)

Ans: (b)

[1]

15	The num	ratio of the number of girls to boys in Hall A is 7 : 3. The ratio of the ober of girls to boys in Hall B is 2 : 7. The total number of pupils in Hall	Do not write in
	A is	$\frac{2}{3}$ of the total number of pupils in Hall B.	this space
	(a)	What is the ratio of the number of boys in Hall A to the number of boys in Hall B? Express your answer in the simplest form.	
		Ans: (a), [2]	
	(b)	After a total of 375 boys left the hall, the percentage of all the girls became 62%. How many boys remained in the hall?	
		Ans: (b) [2]	
- 15-mar-ma	**************************************	/ IIIO. (b),[2]	

16	At a concert, \$9180 was collected from the sale of adult and child tickets: The ratio of the money collected from adult to child tickets is 14:3.	
	$\frac{1}{5}$ of the tickets sold were child tickets. Each adult ticket is \$9 more than	
	each child ticket. How many child tickets were sold?	
	Ans:[3]	
		Beatter than 1 and

17 At a bakery, cupcakes are sold in boxes of 4 and tarts are sold in boxes of 3 at the prices shown below.

Do not write in this space

Cupcakes	Tarts
4 for \$2.10	3 for \$1.60

Mrs Lee spent a total of \$203.60 on some cupcakes and tarts at the bakery. She repacks them onto trays such that there are 3 cupcakes and 5 tarts on each tray for a party. How many tarts did she buy from the bakery?

Ans:	[3]	

METHODIST GIRLS' SCHOOL (PRIMARY) Primary 6 Standard Mathematics Preliminary Examination 2023

Paper 1 - Booklet A (20 marks)

Questions 1 to 10 1 mark each		
Question	Answer	
1.	3	
2.	3	
3.	4	
4.	2	
5.	1	
6.	3	
7.	1	
8.	4	
9.	2	
10.	3	

Questions 11 to 15 2 marks each			
Question Answer			
11.	4		
12.	3		
13.	4		
14.	1		
15.	4		

Paper 1 - Booklet B (25 marks)

Questions 16 to 20 - 1 mark each

Question	Answer	Remarks
16.	6.07	
17.	15, 30	
	<u>1</u> 30	$\frac{2}{5} \div 12 = \frac{2}{5} \times \frac{1}{12}$
18.	(equivalent fractions accepted)	$=\frac{1}{30}$
19.	11 + 7 <i>y</i>	11+ 7 <i>y</i>
20.	108	360 – 288 = 72 180 – 72 = 108

Questions 21 to 30 - 2 marks each

Qns	Answer	Worked solutions
Q21		21 ÷ 3 = 7
	686 cm ³	$(35-7) \div 2 = 14$
		14 x 7 x 7 = 686
		33 – 25 = 8
		Postage for letter to Thailand = 0.90 + 0.20 = 1.10
		42 – 25 = 17
Q22	\$ 3.20	Postage for letter to Aust = 1.50 + 0.30 + 0.30
		= 2.10
		Total = \$1.10 + \$2.10 = \$ 3.20
Q23	67.5°	∠ DBC = 45°
Q25	07.0	\angle EGF = (180° – 45°) ÷ 2 = 67.5°
		Area of 3 quarter circles = $\frac{3}{4} \times \pi \times 8$ cm $\times 8$ cm = 48π cm ²
Q24	$(48\pi +$	Area of triangle = $\frac{1}{2}$ x 8cm x 8 cm = 32 cm ²
QZ4	32) cm ²	-
		Area of figure = $(48\pi + 32)$ cm ²
		Point R can be anywhere along
		R this line.
Q25	Refer to	
	diagram	F ₂ */* F ₂ */* * * * */* * * * * * * * * * * * *
		A F FI P
-		
		8 x 8 = 64 Length of base = 8 cm
Q26	9 cm	Height of cuboid = $72 \text{ cm}^2 \div 8 \text{ cm} = 9 \text{ cm}$
007	404	624 ÷ 3 = 208 208 x 4 = 832
Q27	104	832 ÷ 8 = 104 Or 624 ÷ 6 = 104 Or 208 ÷ 2 = 104

Q28	Refer to diagram	The 3 rd square can be any of the 4 squares labelled.
Q29	<u>7</u> 18	$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$ $\frac{1}{6} + \frac{2}{9} = \frac{7}{18}$
Q30	15	20 + 15 + 25 + 15 = 75 18 x 5 = 90 90 - 75 = 15

Paper 2 (55 marks)

Qns	Answer	Worked	solutions
1.		(a) 4.1 cm (accepted range 4 cm – 4.2 cm) (b) 94° (accepted range 92° – 95°)	
2.	298	360° – 62° = 298 °	
3.	70	180 min – 15 min = 165 min 165 min ÷ 3 = 55 min 55 min + 15 min = 70 min	··
4.	4.8	Method 1 $\frac{1}{2} \times 8 \times 6 = 24$ $24 \times 2 = 48$ $48 \div 10 = 4.8 \text{ cm}$	Method 2 $\frac{1}{2} \times 10 \times RS = 24$ $24 \div 5 = 4.8 \text{ cm}$
5.			

Qns	Answer	Worked solutions
		90% x \$864 = \$777.60
6.	\$786	\$1406.40 - \$777.60 = \$628.80
<u> </u>		\$628.80 ÷ 80 x 100 = \$786
7.	w,	a) $\frac{1}{10} \times 1200 \ell = 120 \ell$ b) Method 1 $(180 \ell - 120 \ell) \div 2 = 30 \ell$ per min $18 \times 30 \ell = 540 \ell$ $540 \ell + 120 \ell = 660 \ell$ Method 2 $2 \text{ mins} \rightarrow 60$ $18 \text{ mins} \rightarrow 9 \times 60 = 540$ $540 \ell + 120 \ell = 660 \ell$
8.	14	Method 1 40 Sq Rt Sq-rt Sq-rt Sq-rt Rt 92 $2u = 92 - 40 = 52$ $1u = 26$ $40 - 26 = 14$ Method 2 Assume all are squares, $40 \times 3 = 120$ $120 - 92 = 28$ $28 \div 2 = 14$
9.		a) 70 g b) Method 1 $A + B = 280 - 70 = 210$ $A + C = 370 - 70 = 300$ $B + C = 340 - 70 = 270$ $2A = 210 + 300 - 270 = 240$ $A = 240 \div 2 = 120 \text{ g}$ Method 2 Diff btw A & B \Rightarrow 370 - 340 = 30 $2B = 280 - 70 - 30 = 180$ $B = 180 \div 2 = 90$ $A = 90 + 30 = 120 \text{ g}$

		c) Method 1 B = 210 - 120 = 90 C = 300 - 120 = 180 Average = (90 + 120 + 180) ÷ 3 = 130 g
		Method 2 $2A + 2B + 2C = 280 + 370 + 340 - 3 \times 70 = 780$ Average mass = $780 \div 6 = 130 \text{ g}$
		a) \angle QPS = 180° - 48° - 48° = 84 °
10.	a) 84° b) 20° c) 137°	b) ∠ TSV = 180°– 116°= 64° ∠ RST = 180°– 64°– 48°– 48°= 20 °
		c) ∠ SRT = 180°– 21°– 20°= 139° ∠ QRT = 360°– 84°– 139°= 137 °
11.	b) 333 ¹ / ₃ %	$3600 \div 4 = 900$ $Month April Month Feb$ $Month Mar$ $b) \frac{1000}{300} \times 100\% = 333\frac{1}{3}\%$
12.	(a) 1570 cm ² (b) 16328 cm ²	a) Area of big circle = 3.14 x 30 cm x 30 cm = 2826 cm ² Area of small circle = 3.14 x 20 cm x 20 cm = 1256 cm ² Shaded area = 2826 – 1256 = 1570 cm ² b) Circ of large circle / Length of large rect. = 3.14 x 60 = 188.4 cm Outer surface area = 188.4 cm x 42 = 7912.8 cm ² Circ of small circle / Length of small rect. = 3.14 x 40 = 125.6 cm ² Inner surface area = 125.6 x 42 = 5275.2 cm ² Total =7912.8 + 5275.2 + 1570 + 1570 = 16 328 cm ²

13.	a) 720m	a) 360 x 2 = 720 m
	b) 1530m	b) 720 ÷ 40 = 18 18 x 85 = 1530 m
14.	(a) 34cm (b) 1.17m	Method 1 Length of 1 rect box = $1.5 \div 2 = 0.75 \text{ m} = 75 \text{ cm}$ Breadth of 2 rect box = $75 \div 13 - 30 = 58 \text{ cm}$ Breadth of 1 rect box = $58 \div 2 = 29 \text{ cm}$ Width of gap = $150 - 29 \times 4 = 34 \text{ cm}$ Method 2 Length of 1 rect box = $150 \div 2 = 75 \text{ cm}$ Breadth of 2 rect box = $75 - (30 - 17) = 58 \text{ cm}$ Width of gap = $150 - 58 - 58 = 34 \text{ cm}$ Method 3 Area of empty space in Fig A = $30 \times 150 = 4500 \text{ cm}^2$ Area of empty vertical space in Fig B = $150 \times 13 = 1950 \text{ cm}^2$ Area of horizontal space in Fig B = $4500 - 1950 = 2550 \text{ cm}^2$ Width of gap = $2550 \div 75 = 34 \text{ cm}$ Method 4 Diff btw 1 length & 2 breadths of rect box = $30 - 13 = 17 \text{ cm}$ 1 length = 2 breadths + 17 cm 2 lengths = $4 \text{ breadths} + 17 \text{ cm} \times 2$ Width of gap = $17 \times 2 = 34 \text{ cm}$ (b) $75 \text{ cm} + 29 \text{ cm} + 13 \text{ cm} = 117 \text{ cm} = 1.17 \text{ m}$
15.	a) 9 : 35 b) 285	a) A:B 2:3 (x 15) 30:45 $ \frac{\text{Hall A}}{\text{Girls: Boys}} \qquad \frac{\text{Hall B}}{\text{Girls: Boys}} $ 7:3 (×3) 2:7 (×5) 21:9 10:35 Boys (Hall A): Boys (Hall B) 9:35 b) 62% \rightarrow 31u (girls) 1% \rightarrow 31u \div 62 = $\frac{1}{2}$ u 38% \rightarrow $\frac{1}{2}$ u × 38 = 19u (boys left) 44u – 19u = 25u

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25u = 375	
1u = 375 ÷ 25	·
= 15	
19u = 15 × 19	
= 285	

Value of tickets A : C 14 : 3 17u = \$9180 1u = \$540 14u = \$7560 3u = \$1620 \$7560 ÷ 4 = \$1890 \$1890 - \$1620 = \$270 \$270 ÷ \$9 = 30 Method 2 Adult → 14 x 4u = 56u Child → (1u - \$9) x 14 = 14u - \$126 Value of tickets A : C 14 : 3 56 : 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 + \$54 = 30 Method 3 3u x 4 = 12u 2x = \$126 14u - 12u = 2u 2x ≤ 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets 4 x 60 = 240			Method 1
14 : 3 17u = \$9180 1u = \$540 14u = \$7560 3u = \$1620 \$7560 ÷ 4 = \$1890 \$1890 - \$1620 = \$270 \$270 ÷ \$9 = 30 Method 2 Adult → 14 x 4u = 56u Child → (1u - \$9) x 14 = 14u - \$126 Value of tickets A : C 14 : 3 56 : 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 Method 3 3u x 4 = 12u 14u - 12u = 2u 2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			Value of tickets A : C
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\$7560 ÷ 4 = \$1890 \$1890 - \$1620 = \$270 \$270 ÷ \$9 = 30 Method 2 Adult \Rightarrow 14 x 4u = 56u Child \Rightarrow (1u - \$9) x 14 = 14u - \$126 Value of tickets A : C 14 : 3 56 : 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 Method 3 3u x 4 = 12u 14u - 12u = 2u 2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
\$1890 - \$1620 = \$270 \$270 ÷ \$9 = 30 Method 2 Adult \Rightarrow 14 x 4u = 56u Child \Rightarrow (1u - \$9) x 14 = 14u - \$126 Value of tickets A : C 14 : 3 56 : 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 Method 3 3u x 4 = 12u 14u - 12u = 2u 2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 + \$50.90 = 4 sets	To the second se		3u = \$1620
\$270 ÷ \$9 = 30 $ \frac{Method 2}{Adult} \rightarrow 14 \times 4u = 56u $ $ Child \rightarrow (1u - $9) \times 14 = 14u - $126 $ Value of tickets A: C $ 14 : 3 $ $ 56 : 12 $ $ 14u - $126 = 12u $ $ 2u = $126 $ $ 1u = $63 (Adult ticket price) $ $ $63 - $9 = $54 $ $ $1620 ÷ $54 = 30 $ $ \frac{Method 3}{3u \times 4 = 12u} $ $ 14u - 12u = 2u $ $ 2 \times 540 = 1080 $ $ 1080 ÷ 9 = 120 $ $ 120 ÷ 4 = 30 $ Packed boxes C: T 3: 5 36: 60 (multiples of 4 and 3) 1 set = \$2.10 \times 9 + \$1.60 \times 20 = \$50.90 $ $203.60 ÷ $50.90 = 4 sets$			
16. $\frac{Method 2}{Adult} \rightarrow 14 \times 4u = 56u}{Child} \rightarrow (1u - \$9) \times 14 = 14u - \$126}$ 16. $30 Value of tickets$ $A : C$ $14 : 3$ $56 : 12$ $14u - \$126 = 12u$ $2u = \$126$ $1u = \$63 (Adult ticket price)$ $\$63 - \$9 = \$54$ $\$1620 \div \$54 = 30$ $\frac{Method 3}{3u \times 4 = 12u}$ $14u - 12u = 2u$ $2 \times 540 = 1080$ $1080 \div 9 = 120$ $120 \div 4 = 30$ $Packed boxes$ $C : T$ $3 : 5$ $36 : 60 (multiples of 4 and 3)$ $1 \text{ set } = \$2.10 \times 9 + \$1.60 \times 20 = \$50.90$ $\$203.60 \div \$50.90 = 4 \text{ sets}$			· ·
Adult \Rightarrow 14 x 4u = 56u Child \Rightarrow (1u - \$9) x 14 = 14u - \$126 Value of tickets A: C 14: 3 56: 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 $\frac{\text{Method 3}}{3\text{u x 4} = 12\text{u}}$ $14\text{u} - 12\text{u} = 2\text{u}$ $2 \text{ x 540} = 1080$ $1080 ÷ 9 = 120$ $120 ÷ 4 = 30$ $\frac{\text{Packed boxes}}{3\text{c}}$ C: T 3: 5 36: 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
16. Solution (20) Solution (2			
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56 : 12 14u - \$126 = 12u 2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 Method 3 3u x 4 = 12u 14u - 12u = 2u 2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
2u = \$126 1u = \$63 (Adult ticket price) \$63 - \$9 = \$54 \$1620 ÷ \$54 = 30 $ \frac{\text{Method 3}}{3u \times 4 = 12u} $ $ 14u - 12u = 2u $ $ 2 \times 540 = 1080 $ $ 1080 ÷ 9 = 120 $ $ 120 ÷ 4 = 30 $ Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 \times 9 + \$1.60 \times 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
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Method 3 $3u \times 4 = 12u$ 14u - 12u = 2u $2 \times 540 = 1080$ $1080 \div 9 = 120$ $120 \div 4 = 30$ Packed boxes C: T 3: 5 36: 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets) 	
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14u - 12u = 2u 2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
2 x 540 = 1080 1080 ÷ 9 = 120 120 ÷ 4 = 30 Packed boxes C : T 3 : 5 36 : 60 (multiples of 4 and 3) 17. 240 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
Packed boxes C: T 3: 5 36: 60 (multiples of 4 and 3) 17. 240 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
Packed boxes C: T 3: 5 36: 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets	***************************************		
C: T 3: 5 36: 60 (multiples of 4 and 3) 17. 240 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
3 : 5 36 : 60 (multiples of 4 and 3) 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets			
17. 240 1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets	***		
1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90 \$203.60 ÷ \$50.90 = 4 sets	17	240	36: 60 (multiples of 4 and 3)
\$203.60 ÷ \$50.90 = 4 sets	1 .	240	1 set = \$2.10 x 9 + \$1.60 x 20 = \$50.90
$4 \times 60 = 240$			\$203.60 ÷ \$50.90 = 4 sets
			$4 \times 60 = 240$

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