

MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 16 AUGUST 2024 PAPER 1

(BOOKLET A)

15 questions 20 marks Total time for Booklets A and B: 1 hour

NAME :		()	
CLASS : PRIMARY 6	<u>.</u>			

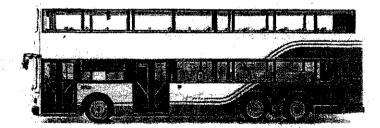
INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET 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. 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.

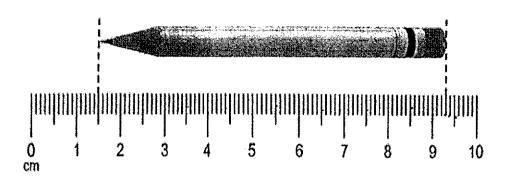
(20 marks)

- 1 In which of the following numbers does the digit 5 appear in the ten thousands place?
 - (1) 567 891
 - (2) 987 654
 - (3) 1 234 567
 - (4) 7 654 321
- 2 Which of the following fractions is equal to $5\frac{6}{7}$?
 - (1) $-\frac{30}{7}$
 - (2) $\frac{35}{7}$
 - (3) $\frac{37}{7}$
 - (4) $\frac{41}{7}$
- 3 What is the likely length of a public bus?
 - (1) 1.2 cm
 - (2) 12 m
 - (3) 120 m
 - (4) 1.2 km



- 4 Round 3.456 to 2 decimal places.
 - (1) 3.40
 - (2) 3.45
 - (3) 3.46
 - (4) 3.50

5 The diagram below (not drawn to scale) shows the length of a pencil.

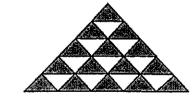


What is the length of the pencil?

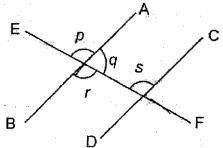
- (1) 1.5 cm
- (2) 7.8 cm
- (3) 8.2 cm
- (4) 9.3 cm
- 6 Arrange the following lengths from the shortest to the longest.

	10 m 50 cm	10 500 cm	10.05 m
	shortest		longest
(1)	10,05 m,	10 m 50 cm,	10 500 cm
(2)	10 m 50 cm,	10.05 m,	10 500 cm
(3)	10 500 cm,	10 m 50 cm,	10.05 m
(4)	10 500 cm,	10.05 m,	10 m 50 cm

- 7 The figure below is made up of identical triangles. What percentage of the figure is shaded?
 - (1) 10%
 - (2) 15%
 - (3) 40%
 - (4) 60%

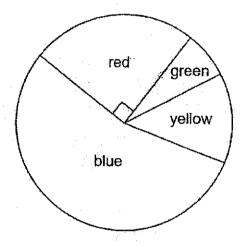


- In the diagram below. AB, CD and EF are straight lines. AB is parallel to CD. Which of the following is **false**?
 - $(1) \qquad \angle p + \angle q = 180^{\circ}$
 - (2) $\angle q = \angle r$
 - (3) $\angle p = \angle s$
 - $(4) \qquad \angle q + \angle s = 180^{\circ}$



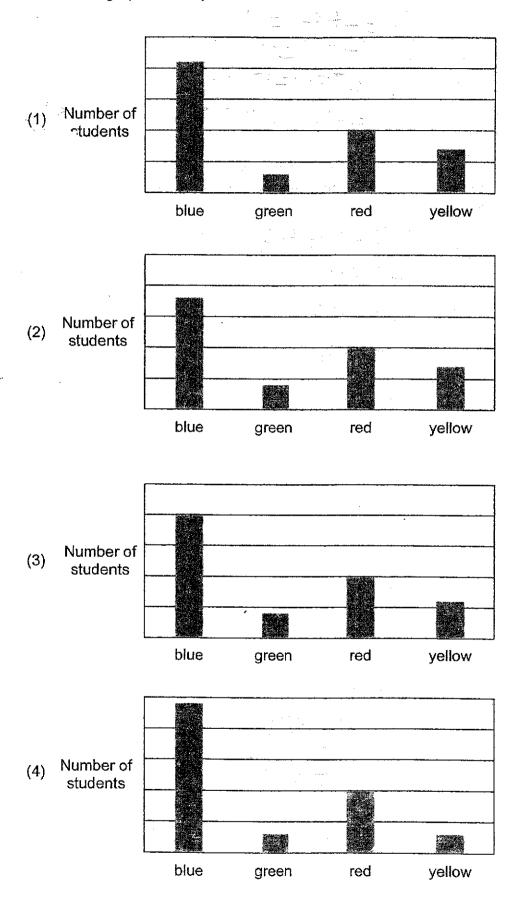
Study the pie chart below and answer questions 9 and 10.

The pie chart shows the choice of favourite colours of a group of students.

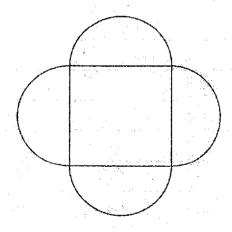


- 9 Which is the least favourite colour?
 - (1) red
 - (2) blue
 - (3) green
 - (4) yellow

10 Which bar graph correctly shows the choices of the students' favourite colour?



- 11 Which of the following expressions is the greatest?
 - (1) $4+3\times2-1$
 - (2) $4 + 3 \times (2 1)$
 - $(3) (4+3) \times 2 1$
 - (4) $(4+3\times2)-1$
- There were 60 blue chairs and 60 red chairs in the hall. More red chairs were added in the hall and the percentage of red chairs increased to 60%. How many red chairs were there in the hall in the end?
 - (1) 66
 - (2) 90
 - (3) 96
 - (4) 150
- The figure below is made up of a square and 4 identical semicircles. The perimeter of the figure is 16π cm.



What is the perimeter of the square?

- (1) 8 cm
- (2) 16 cm
- (3) 32 cm
- (4) 64 cm

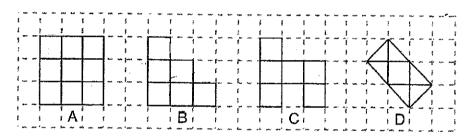
14 The pattern below is made up of the letters H, M, P and S.

M S H S P M S H S P M S... 1st 12th

Which letter is in the 123rd position?

- (1) H
- (2) M
- (3) P
- (4) S

15 The shapes below are drawn on square grids.



Which of the following statements is true?

- (1) A and B have the same perimeter.
- (2) A and B have the same area.
- (3) C and D have the same area.
- (4) C has a larger area than B.

END OF BOOKLET A GO TO BOOKLET B



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 16 AUGUST 2024 PAPER 1 (BOOKLET B)

15 questions
25 marks
Total time for Booklets A and B: 1 hour

NAME :)
CLASS: PRIMARY 6	

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- 1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
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- 4. WRITE YOUR ANSWERS IN THIS BOOKLET.
- 5. YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

MARKS OBTAINED FOR						
PAPER 1 (BOOKLET A)	/ 20	Pareпt's Signature:				
PAPER 1 (BOOKLET B)	/ 25					
TOTAL	/ 45	Date:				

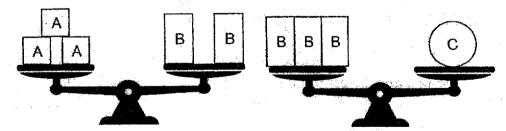
	Name of the state	marks)
Write five million, fifty thousand and fif	ty in numerals:	
yyine are manori, mry thousand and m	ty in mannorais.	
	Ans:	
Find the area of the right-angled triang	gle below.	
	60 cm	
11 cm		
61 c	m	
	4	
	Ann	om²
	Ans:	cm²
		,,
Find ∠p.		
p		
40°		
· N		
	Ans:	

(Go on to the next page)

19	A movie movie?	started	at 1155	and end	ied at 14	128. Wh	at was the	duration	of the	Do not write in
										this space.
				·						
										•
							Ans:	h	min	
20	Calculate	the ave	rage of t	he follov	ving num	bers:				
			6	7	3	0	4		:	
									:	
							•		·	
			•				Ans:			•
	·					<u> </u>				

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 answer in the units stated. (20 marks)					
21	The product of 2 whole number	umbers is 60. The sum of the	ese 2 numbers is 1	spa 9.	
	Titlet is the amorotion both.			The second secon	
				Advantation of the control of the co	

22 3 different types of masses, A, B and C are balanced as shown in the 2 balances below.

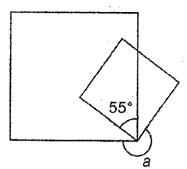


Ans: _

How many mass A are needed to balance 2 mass C?

	Ans:	
	Alis.	<u> </u>
9	SCORE (Go on to the next page	

23 The diagram below shows 2 overlapping squares.

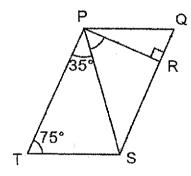


Find ∠a.



Ans: _____

PQST is a parallelogram as shown below. $\angle PTS = 75^{\circ}$ and $\angle TPS = 35^{\circ}$.



Find ∠SPR.

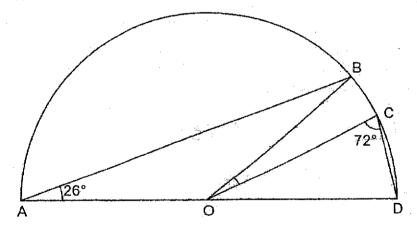
Ans:

After Ali spent $\frac{1}{5}$ of his money	and Bala spent	•	each of them
had \$72 left. How much more i	noney did Ali ha	ve than Bala at fir	rst?

Do not write in this space.

Ans:	\$	

The figure below shows a semicircle with centre O. Triangles ABO and OCD are drawn inside the semicircle such that A, B, C and D are points on the semicircle. ∠OAB = 26° and ∠OCD = 72°.



Find ∠BOC.

Ans:		0
i dio.	 	-

11

SCORE (Go on to the next page)

27	The cuboid below has a square base. The volume of the cuboid is 576 cm³. Find the side of the square base.	Do not write in this space.
28	Ans:cm Alex can paint a room in 3 days. Bernard can paint the same room in 5 days. It they work together, how many days do they need to paint the room? Express your answer as a mixed number in the simplest form.	
	Ans:	
	12 SCORE (Go on to the next page)	

29	and divided the number by	6 instead. As a result, the answer he obtained was vanswer. What number was Andrew supposed to	Do not write in his space.
	divido;		pado.
		Ans:	
30	perimeter.	quare and a rectangle. Both shapes have the same	
	6 cm		
		(x + 8) cm	
		x cm	
		A VIII	
	What is the value of x?		
		Ans:	
· .	, , , , , , , , , , , , , , , , , , ,		
	E	End of Booklet B	

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SCORE

13



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 16 AUGUST 2024 PAPER 2

17 questions 55 marks

Time: 1 h 30 min

·			
	NAME:	 ()
	CLASS : PRIMARY 6		•

INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
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- 3. ANSWER ALL QUESTIONS.
- 4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
- 5. WRITE YOUR ANSWERS IN THIS BOOKLET.
- 6. YOU ARE ALLOWED TO USE A CALCULATOR.

MARKS OBTAINED FOR							
PAPER 1 (BOOKLET A & B)	/ 45	Parent's Signature:					
PAPER 2	/ 55						
TOTAL	/100	Date:					

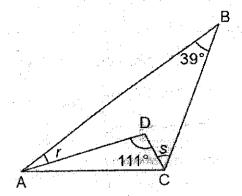
Questions 1 to 5 carry 2 marks each. Show your working answers in the space provided. For questions which require in the units stated.	ng clearly and write your Do not units, give your answers write in (10 marks) this space
The diagram below shows some shapes.	
What is the ratio of the total number of shapes to the Express your answer in the simplest form.	number of squares?
	-
	Ans:
- 18 - April -	
2 $15\frac{4}{5}$ kg of sugar was packed into bags of $\frac{5}{8}$ kg each.	- - -
(a) What was the maximum number of bags of sug	ar?
An	s: (a)
(b) How much sugar was left unpacked?	
Ans: ((b)kg
1	SCORE (Go on to the next page)

A service services of the serv

3	The rhombus and rectangle shown below are made up of identical right-angle triangles.	Do not write in this space
		·
	Perimeter = 42 cm Perimeter = 34 cm Perimeter = ?	
	What is the perimeter of the right-angle triangle?	
/	Ans: cm	
4	The average height of a group of boys was 1.5 m. After 12 boys joined the group, the average height of all the boys increased to 1.65 m. How many boys were there in the group at first?	
		Age
		CONTRACTOR OF THE PROPERTY OF
	Ans:	
	2 SCORE (Go on to the next page)	

In the figure below, ABC and ACD are triangles.
 ∠ABC = 39° and ∠ADC = 111°.

Do not write in this space



What is the sum of ∠r and ∠s?

Ans: _____

3

SCORE (Go on to the next page)

spa	ces pro	rovided. The number of marks available is shown in brackets [] at the will chiquestion. (45 marks)	o not rite in nis pace
6	The	price of 3 items sold at a bookshop are shown below.	
		Pencil: (x + 60) ¢	
		Pen: \$2	
		Ruler: $3x \phi$	
	(a)	Chester bought 1 pencil and 2 pens. Express the cost of the 3 items in terms of x.	
		Ans: (a)[1]	
	(b)	Joseph bought a pencil and a ruler. If $x = 60$, how much did he spend?	

SCORE (Go on to the next page)

Ans: (b) _____[2]

4

which was 209 km away.			write in
a) What was the duration of	the journey? Express you	r answer in hours.	this
in the state of th			space
			1
			ļ
	*		
	Ans: (a)	[1]]
(b) From Town B, he drove	for another 2 h 36 min and	d arrived at Town C	-
The distance between To	wn B and Town C was 153	.4 km. What was the	•
average speed he drove	from Town B to Town C?		
Express your answer in l	<mark>km /h.</mark> (1994) - 1		-
			ange over half below
			į
			.
			**
•			
			1
		_	03
	Ans: (b)	[2]
			e 11 - 1

The table below shows the number of students who borrowed books from the school library in August.

Do not write in this space.

Number of books borrowed	1	2	3	4	5 and above
Number of students	82	34	30	?	16

(a) How many students borrowed less than 3 books?

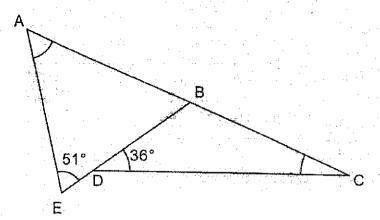
Ans:	(a)	\	1	•
A115.	١a.		. 1	

(b) The number of students who borrowed exactly 4 books was approximately 24% (rounded to the nearest percentage). What was the smallest possible number of students who borrowed exactly 4 books?

Ans: (b) _____[2]

SCORE (Go on to the next page) 9 ABC is a straight line. ABE and BCD are triangles.∠BDC = 36° and ∠BEA = 51°.

Do not write in this space.



(a) $\angle BCD = \frac{7}{9}$ of $\angle BDC$. Find $\angle BCD$.

Ans: (a) _____[1

(b) Find ∠BAE.

Ans: (b) [1]

(c) Circle the word(s) that describe ABE in the following statement. [1]

ABE (is / is not) an isosceles triangle.

7

SCORE (Go on to the next page)

10	The table below Schools A and I	shows some 3.	informatio	n about the	number o	f boys and girls i	Do not write in this
			Boys	Girls	Total		space,
		School A	637		The second se		
		School B					
		Total		1118	2298		No digraphic and the same and
	(a) What is the	he total numb	er of boys	in both scl	nools?		
				Ans:	(a)		The state of the s
	The number of g (b) How many	irls in School y girls are thei	-		of girls in S	chool A.	
	(c) What is the	e total numbei	of boys ar		b) School A?	[1]	
				Ans: (d	o)	[1]	
			8		(Go on t	SCORE to the next page)	

Triangle BCE, as shown below, forms part of a rhombus ABCE. Do not write in this space. Ε C B (a) Measure ∠ECB. Ans: (a) _ On the square grid above, complete the drawing of rhombus ABCE and (b) label point A. CDE is an isosceles triangle which does not overlap with rhombus (c) ABCE such that ∠BED = 90°. On the square grid above, complete the [1] drawing of CDE and label point D.

SCORE

(Go on to the next page)

9

	March entage increase	April	space.
	•		
	•		
	•		
	•		
	•		
	•		
	•		
	•		
was the perce	entage increase	of the height	
		į ·	
Ans: (a)	to	[2]	•
	is period was 16	6.5 cm. What	
			•
		ويدون	
		To the state of th	
Ans: (b)		[2]	
	plant during the	olant during this period was 10 n March? Ans: (b)	olant during this period was 16.5 cm. What n March? Ans: (b)[2]

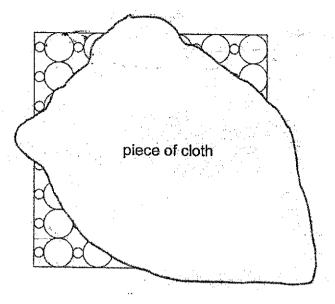
13	PQS and QRS are isosceles triangles such that the height of Triangle PQS is thrice the height of Triangle QRS. The shaded area is 289 cm².	Do not write in this space.
	S 45° Q	
	(a) Find the area of Triangle PQS.	
	Ans: (a)[2]	
	(b) Find the length of SQ.	
	Ans: (b)[2]	
	11 SCORE (Go on to the next page)	

	Mathematics competition, 5 points were awarded for a correct response points were deducted for an incorrect response.	Do not write in this
(a)	In a competition of 20 questions, Chester answered 3 questions wrongly. How many points did he get?	space.
:	· · · · · · · · · · · · · · · · · · ·	
	Ans: (a)[2]	
(b)	In the competition that Dominic took part in, there were less than 100 questions. He scored exactly 0 points. What is the maximum number of questions he answered correctly?	
		Transporter School Control Con
		Wagner of the second and the second
·		
		· · · · · · · · · · · · · · · · · · ·
	Ans: (b)[2]	
· · · · · · · · · · · · · · · · · · ·		and the second s
	12 SCORE (Go on to the next page)	

	e number of girls who visited a funfair we for each person was \$12 and a total on.	
(a) How many boys were there?		
		7 7 1
	Ans: (a)	[2]
On that same day, the ratio of the number of females (girls and women were 54 more men than women.	number of males (boys and men) to to the who visited the funfair was 8 : 5. The	he ere
(b) How many women were ther	re?	
	Ans: (b)	[3]

A large square tile of sides 48 cm is painted with circles in a fixed pattern shown below. Part of the tile is covered by a piece of cloth. The ratio of the radius of the small circle to the radius of the large circle is 1:3. The diameter of the small circle is 2 cm.

Do not write in this space.



(a) How many circles are printed on this square tile?

	1.4		
Ans:	121		יני
u 10.	141		. 7
		- Indiana and a second a second and a second a second and	\sim .

14

SCORE (Go on to the next page)

Find the percentage of the area of the square till circles. Round your answer to the nearest percentage.	le that is not cove centage.	ed with	write i
(Take $\pi = 3.14$)			this space
		:	
		WA	
		- Control of the state of the s	
			•
		-	
		- Aller	
			-
		and the second s	
Ans: (b)		[2]	

15

SCORE (Go on to the next page)

17	Ther coins	e were some 10¢, 20¢ and 50¢ oo s than 20¢ coins. The total value o 30.	ins in a box. There w of all the 10¢ coins ar	vere 34 more 10¢ nd 20¢ coins was	Do not write in this space.
	(a)	How many 10¢ coins were there	in the box?		opacc.
				•	
					·
					,
					-
				V	
					· : :
					Ç ⁱ
			Ans: (a)	[2]	
					.
		16		SCORE to the next page)	

$\frac{2}{3}$ of the 50¢ coins were exchanged for \$1 coins which were then placed in the box. The total value of all the coins in the box did not change but the mass of all the coins in the box decreased by 172.8 g. The mass of each 50¢ coin is 6.5 g and the mass of each \$1 coin is 7.6 g.			
(b)	What was the total numb exchange?	er of 50¢ and \$1 coins in the box after the	

Ans: (b) [3]

End of Paper 2

17

SCORE

SCHOOL: MARIS STELLA SCHOOL

LEVEL: PRIMARY 6

SUBJECT : MATH

TERM : 2024 PRELIM

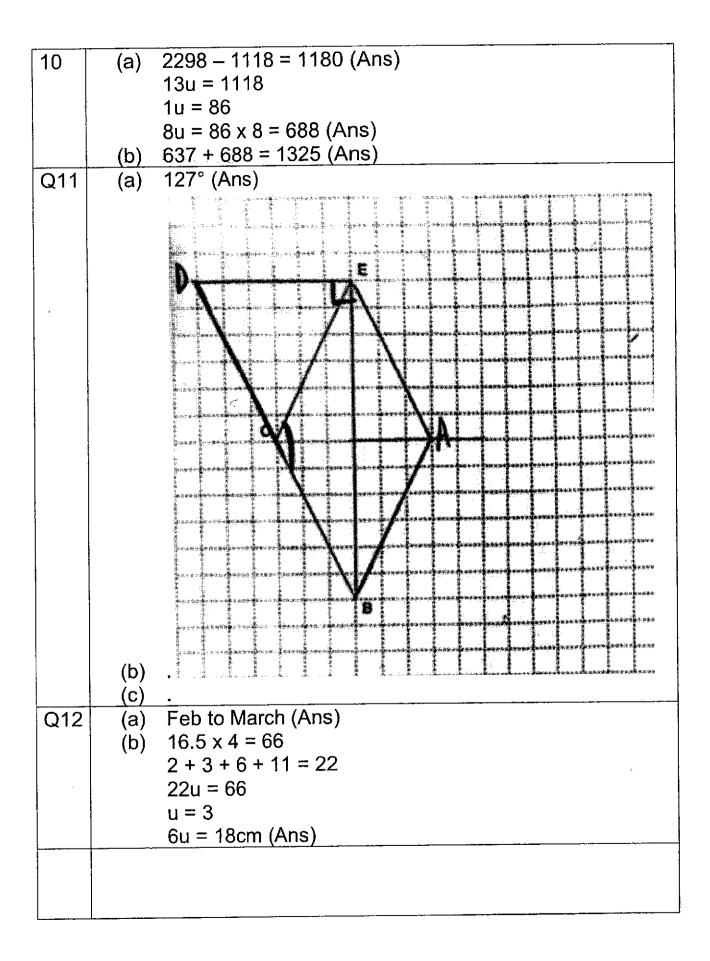
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	2	3	2	1	4	2	3	1
Q11	Q12	Q13	Q14	Q15					
3	2	3	1	1					

Q16) 5050050 Q17) 330 cm2 Q18) 360 - 90 = 270 270 - 40 = 230° Q19) 2h 33 min Q20) 4 Q21) 11 Q22) 9 Q23) 90 - 55 = 35 35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 G		
Q18) 360 - 90 = 270 270 - 40 = 230° Q19) 2h 33 min Q20) 4 Q21) 11 Q22) 9 Q23) 90 - 55 = 35 35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 G	Q16)	5050050
270 - 40 = 230° Q19) 2h 33 min Q20) 4 Q21) 11 Q22) 9 Q23) 90 - 55 = 35 35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 G	Q17)	330 cm2
Q19) 2h 33 min Q20) 4 Q21) 11 Q22) 9 Q23) 90 - 55 = 35	Q18)	360 - 90 = 270
Q20) 4 Q21) 11 Q22) 9 Q23) 90 - 55 = 35		270 - 40 = 230°
Q21) 11 Q22) 9 Q23) 90 - 55 = 35 35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 ANS: 8	Q19)	2h 33 min
Q22) 9 Q23) 90 - 55 = 35 35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 8	Q20)	4
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35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24)	Q22)	9
35 + 35 = 70 360 - 70 = 290 290 - 55 = 235° Q24)	Q23)	90 - 55 = 35
$360 - 70 = 290$ $290 - 55 = 235^{\circ}$ Q24) $180 - 90 = 90$ $90 - 75 = 15$ $180 - 75 = 105$ $105 - 35 = 70$ $70 - 15 = 55^{\circ}$ Q25) $\$12$ Q26 16° Q27) $576 \div 9 = 64$ $8 \times 8 = 64$ $ANS: 8$ Q28) $1\frac{7^{\square}}{8^{\square}}$,	•
$ \begin{array}{lll} 290 - 55 &= 235^{\circ} \\ \hline $		
Q24) 180 - 90 = 90 90 - 75 = 15 180 - 75 = 105 105 - 35 = 70 70 - 15 = 55° Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8		· · · · · · · · · · · · · · · · · · ·
$ 90 - 75 = 15 \\ 180 - 75 = 105 \\ 105 - 35 = 70 \\ 70 - 15 = 55^{\circ} $ $ Q25) $12 $ $ Q26 16^{\circ} $ $ Q27) 576 ÷ 9 = 64 \\ 8 x 8 = 64 \\ ANS: 8 $ $ Q28) 1 \frac{7^{\square}}{8^{\square}} $		
$ 90 - 75 = 15 \\ 180 - 75 = 105 \\ 105 - 35 = 70 \\ 70 - 15 = 55^{\circ} $ $ Q25) $12 $ $ Q26 16^{\circ} $ $ Q27) 576 ÷ 9 = 64 \\ 8 x 8 = 64 \\ ANS: 8 $ $ Q28) 1 \frac{7^{\square}}{8^{\square}} $	Q24)	180 - 90 = 90
$ \begin{array}{r} 180 - 75 = 105 \\ 105 - 35 = 70 \\ 70 - 15 = 55^{\circ} \end{array} $ $ \begin{array}{r} Q25) \$12 \\ Q26 16^{\circ} \\ Q27) 576 \div 9 = 64 \\ 8 \times 8 = 64 \\ ANS: 8 \end{array} $ $ \begin{array}{r} 228) 1\frac{7^{\square}}{8^{\square}} \end{array} $,	
$ \begin{array}{r} 105 - 35 = 70 \\ 70 - 15 = 55^{\circ} \end{array} $ $ \begin{array}{r} Q25) \$12 \\ Q26 16^{\circ} \\ Q27) 576 \div 9 = 64 \\ 8 \times 8 = 64 \\ ANS: 8 \end{array} $ $ \begin{array}{r} 28) 1\frac{7^{\square}}{8^{\square}} \end{array} $		
$70 - 15 = 55^{\circ}$ Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) $1\frac{7^{\square}}{8^{\square}}$		
Q25) \$12 Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 8 7		
Q26 16° Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8 Q28) 1 7 8		
Q27) 576 ÷ 9 = 64 8 x 8 = 64 ANS: 8	Q25)	\$12
8 x 8 = 64 ANS: 8 Q28) 1 7 8	Q26	16°
8 x 8 = 64 ANS: 8 Q28) 1 7 8	Q27)	576 ÷ 9 = 64
Q28) 1 ^{7□} / _{8□}	'	
		ANS: 8
	U38)	7
	4201	1 -
Q29) 96		
	Q291	96

Q30) 2	

Paper 2 Answers

Q1	10.1	
		= 3 : 1 (Ans)
Q2	(a)	$15\frac{4}{5} \div \frac{5}{8} = 25\frac{7}{25}$ (Ans) = 25
	(b)	$\frac{7}{5} \times \frac{5}{8} = \frac{7}{40} \text{ (Ans)}$
Q3	42 ÷ 4	= 10.5
	34 ÷ 2	= 17
		17 = 27.5 (Ans)
Q4	***This	s question is voided by school due to error in question***
Q5	180° -	111° = 69°
		69° - 39° = 72° (Ans)
Q6	(a)	(x + 60)¢ + \$2 + \$2
		= x + 60¢ + 400¢
	/L \	= x + 460¢ (Ans)
	(a)	$(x + 60)\phi + (3x)\phi$
		$= (60+60)\phi + (3*60)\phi$
		= $120\phi + 180\phi$ = $300\phi = $3 (Ans)$
Q7	(a)	$209 \div 76 = 2.75 \text{ hours (Ans)}$
<u> </u>		2h 36mins = $2\frac{36}{60} = 2\frac{3}{5} = 2.6$ hours
	ζ /	Ave Speed = $153.4 \div 2.6 = 59$ km/h (Ans)
Q8	(a)	82 + 36 = 116 (Ans)
	1. 1	82 + 34 + 30 + 16 = 162
	(~)	100% - 24% = 76%
		76% = 162
		$24\% = \frac{24}{76} \times 162 = 51.16$
		- 51.16 + 162 = 213 *** $\frac{51}{213}$ x 100% = 23.9%
		- $50 + 162 = 212 *** \frac{50}{212} \times 100\% = 23.6\%$
		Therefore (Ans) 50
Q9	(a)	$\frac{7}{9}$ x 36° = 28° (Ans)
	(b)	∠DBC = 180° -36° - 28° = 116°
	•	∠ABE = 180° - 116° = 64°
		∠BAE = 180° - 51° - 64° = 65° (Ans)
	(c)	"Is Not" (Ans)



		
Q13	(a)	Area of $\angle PQS = \frac{1}{2} \times B \times 3H$
		Area of $\angle QRS = \frac{1}{2} \times B \times H$
		$289 \times 3 = 867 \text{cm}^{\frac{1}{2}} \text{(Ans)}$
	(b)	1
044		$\sqrt{156} = 34 \text{ (Ans)}$
Q14	(a)	17 x 5 = 85 3 x 3 = 9
		85 - 9 = 76 (Ans)
	(b)	
	` '	= 96
		Total
		5:3 8
		60 : 36 96 (Ans) 36
Q15	(a)	Boy : Girls Total
	` ,	10:7 17
ļ		$17 \times \$12 = \204
		4692 ÷ 204 = 23
	(h)	23 x 10 = 230 (Ans) Male : Female = 8 : 5
	(6)	Ratio difference = 3
		54 ÷ 3 = 18
		Male: Female = 8:5
		$= 8 \times 18 : 5 \times 18$
		= 144 : 90 (Ans) 90 women
		(7 tillo) de worlleit
	-	

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Q16
         (a)
               2 + 6 = 8
               48 \div 8 = 6
               48 \div 6 = 8
               6 \times 8 \times 2 = 96
         (b)
               \pi \times 1 \times 1 \times 48
               = 3.14 \times 48
               = 150.72 \text{ cm}^2
               \pi \times 3 \times 3 \times 48
               = 3.14 \times 9 \times 48
               = 1356.48 \text{ cm}^2
               Area of square = 48 \times 48 = 2304 \text{ cm}^2
               2304 - 1356.48 - 150.72 = 796.80 \text{ cm}^2
               -\frac{796.8}{2321} x 100% = 34.58% = 35% (Ans)
               34 \times 10¢ = 340¢ = $3.40
Q17
         (a)
               $13.30 - $3.40 = $9.90
               $9.90 \div $0.30 = 33
               33 + 34 = 67 (Ans)
               50¢ coin = 6.5g
         (b)
               2 \times 50¢ coins = 6.5q x 2 = 13q
               1 = 7.6g
               weight difference between $1 coin and 50¢ coin
               13q - 7.6q = 5.4q
               172.8q \div 5.4q = 32
               32 sets of (2 x 50¢ coins) was changed to $1 coin
               \frac{2}{3} of the initial 50¢ coins = 32 x 2 = 64pcs
               64pcs of 50¢ coins changed to 32pcs of $1 coins
               \frac{1}{3} of the balance 50¢ coins = 32pcs of 50¢ coins
               32 pcs of 50¢ coins and 32 pcs of $1 coins
               Ans: Total 64 coins
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