METHODIST GIRLS' SCHOOL (PRIMARY) Founded in 1887



PRELIMINARY EXAMINATION 2024 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 <u>NOT</u> allowed.

Name: ____()

Class: Primary 6.____

Date: 19 August 2024

This booklet consists of <u>7</u> 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 50 000 + 6000 + 300 + 7 = _____

- (1) 56 370
- (2) 56 307
- (3) 56 037
- (4) 50 637

2 Round 6.745 to the nearest hundredths.

- (1) 6.70
- (2) 6.74
- (3) 6.75
- (4) 6.80
- 3 Which of the following fractions is greater than $\frac{1}{3}$?
 - (1) $\frac{7}{27}$
 - (2) $\frac{8}{21}$
 - (3) $\frac{5}{18}$
 - (⁰/ 18 4
 - (4) $\frac{4}{15}$

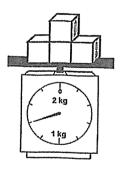
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4 Arrange the following from the lightest to the heaviest.

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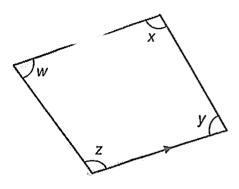
	6 kg 500 g	$6\frac{1}{5}$ kg	6.05 kg
	<u>Lightest</u>		<u>Heaviest</u>
(1)	$6\frac{1}{5}$ kg	6.05 kg	6 kg 500 g
(2)	6.05 kg	6 kg 500 g	6 <mark>1</mark> kg
(3)	6.05 kg	6	6 kg 500 g
(4)	6 kg 500 g	6.05 kg	6

5 The weighing scale shows the mass of 4 identical wooden blocks. What is the mass of 1 block?



- (1) 175 g
- (2) 300 g
- (3) 350 g
- (4) 675 g

6 The figure below is a trapezium.



Which of the following statements is true?

- (1) $\angle x = \angle y$
- $(2) \qquad \angle w = \angle y$
- $(3) \qquad \angle w + \angle z = 180^{\circ}$
- (4) $\angle w + \angle x = 180^{\circ}$

7 The button 7 on a scientific calculator is not working.Which of the following should Mina key in to find the value of 37 × 18?

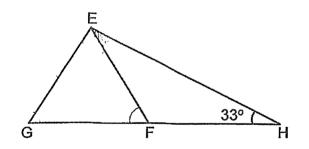
- (1) 36 + 1 × 18
- (2) 36 × 18 + 18
- (3) $38 \times 18 1$
- (4) 40 × 18 18
- Rahul bought an apple and a dozen of oranges for \$20y.
 Each orange cost \$3. Find the cost of an apple.
 - (1) \$20*y*
 - (2) \$(20y-3)
 - (3) \$60*y*
 - (4) \$(20*y* 36)

9 In the television guide shown, one programme leads to another without any break in between.

Start Time	Programme	
8.30 a.m.	News	
9.00 a.m.	Football	
10.40 a.m.	Local Drama	
11.25 a.m.	Music	

How much longer is the Football programme than the Local Drama programme?

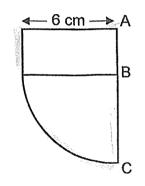
- (1) 45 minutes
- (2) 55 minutes
- (3) 1 hour 35 minutes
- (4) 1 hour 40 minutes
- 10 EFG is an equilateral triangle. GFH is a straight line.



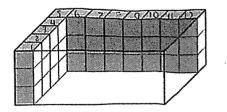
Find ∠HEF.

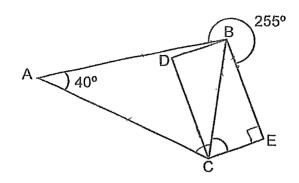
- (1) 27°
- (2) 33°
- (3) 60°
- (4) 87°

- 11 Machine A prints 5 pages in a minute. Machine B prints 3 times as fast as Machine A. Both machines start printing at the same time. How long will it take both machines to print a total of 120 pages?
 - (1) 6 minutes
 - (2) 8 minutes
 - (3) 12 minutes
 - (4) 24 minutes
- 12 The figure is made up of a quadrant and a rectangle The ratio of the length of AB to the length of AC is 1 : 3. Find the perimeter of the figure in terms of π .



- (1) $(3 \pi + 12)$ cm
- (2) $(3 \pi + 18)$ cm
- (3) $(12 \pi + 12)$ cm
- (4) $(12 \pi + 18)$ cm
- **13** A rectangular container is partially filled with 1-cm cubes as shown. How many more cubes are needed to fill the container completely?
 - (1) 56
 - (2) 64
 - (3) 84
 - (4) 86





Find ∠BCE.

- (1) 35°
- (2) 45°
- (3) 55°
- (4) 70°

15 Some children took part in a swimming competition. $\frac{1}{3}$ of the boys and $\frac{1}{5}$ of the girls were prize winners. There were 45 prize winners and $\frac{4}{9}$ of them were girls. How many children took part in the swimming competition?

- (1) 75
- (2) 100
- (3) 130
- (4) 175

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2024 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions. Write your answers in this booklet. The use of calculators is <u>NOT</u> allowed.

Name: _____()

Class: Primary 6.____

Date: 19 August 2024

25

Parent's Signature: _____

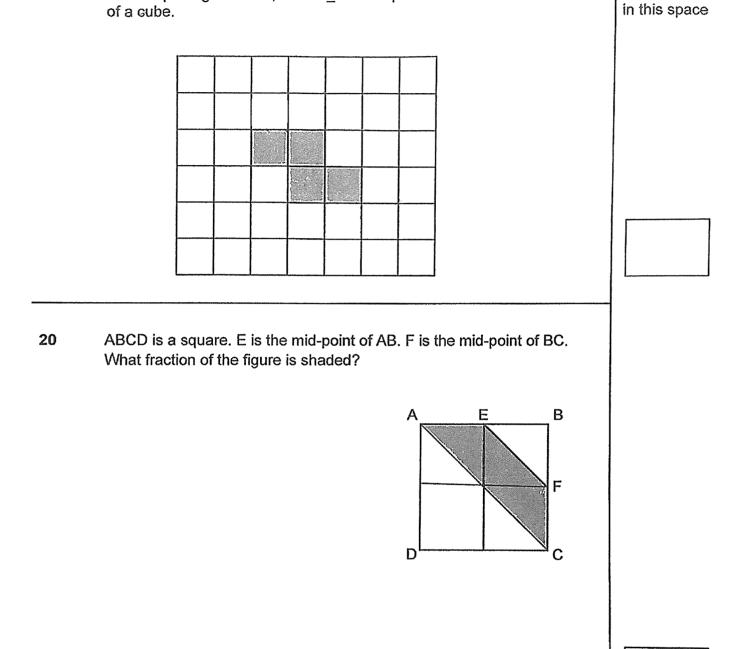
This booklet consists of <u>9</u> printed pages including this page.

Quest provic	tions 16 to 20 carry 1 mark each. Write your answers in the spaces led. For questions which require units, give your answers in the units stated. (5 marks)	Do not write in this space
16	Find the value of 8.09 × 7.	
****** ******************************	Ans:	
17	Express $6 \div 7$ as a decimal correct to 2 decimal places.	
	Ans:	
18	Find the value of $\frac{2}{5} \div 4$. Express your answer as a fraction in its simplest form.	
	Ans:	
······································		

	ions 16 to 20 carry 1 mark each. Write your answers in the spaces ed. For questions which require units, give your answers in the units stated. (5 marks)	Do not write in this space
16	Find the value of 8.09 × 7.	
	Ans:	
17	Express 6 ÷ 7 as a decimal correct to 2 decimal places.	
	Ans:	
18	Find the value of $\frac{2}{5} \div 4$. Express your answer as a fraction in its simplest form.	
	Ans:	

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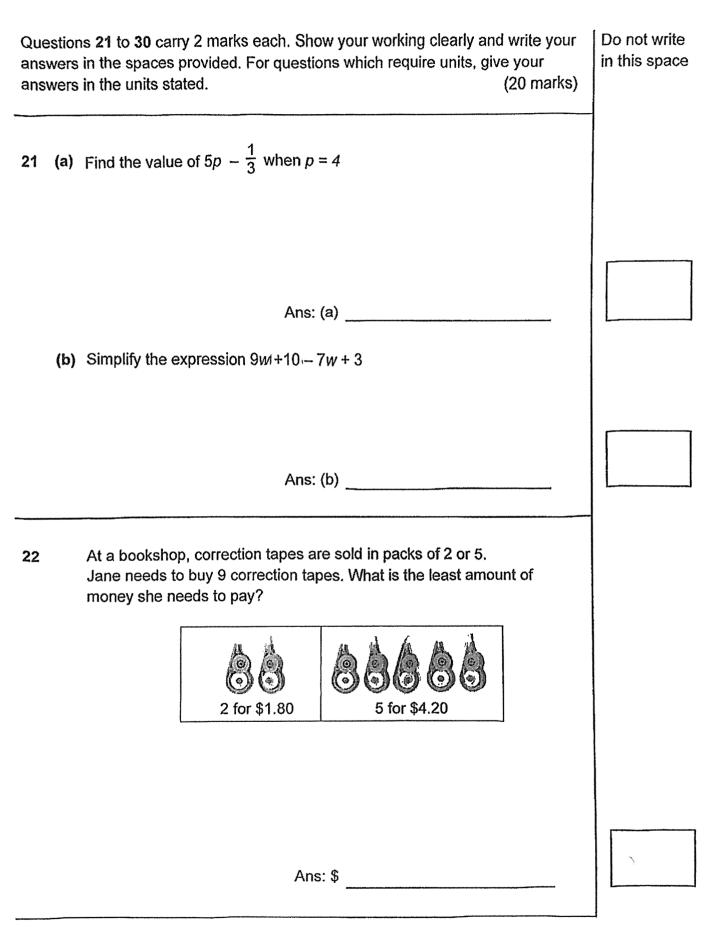


Ans: _____

In the square grid below, shade 2 more squares to form the net

19

Do not write

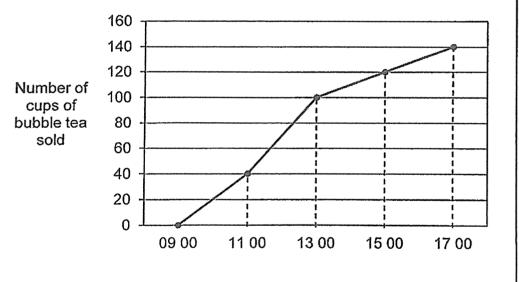


23 Raj had enough money to buy exactly 20 pens. During a sale, the price of each pen was reduced by \$0.15. With the money he saved from the discount, he was able to buy 4 more pens and had \$0.20 left. What was the price of each pen during the sale?

Do not write in this space

Ans: \$ _

24 The line graph shows the number of cups of bubble tea sold in a shop on Friday from 09 00 to 17 00.



What was the average number of cups of bubble tea sold per hour from 11 00 to 15 00?

Ans:

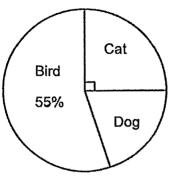
John bought some plants at an average price of \$7. After buying another Do not write 25 in this space plant at \$21, the average price became \$9. Find the total number of plants John bought. Ans: The square grid shows line CD. 26 (a) Using the line CD, draw an isosceles triangle CDE, such that CD = DE. Using the line CD, draw a trapezium ABCD, such that CD is (b) parallel to BA. The trapezium should not overlap the isosceles triangle. Use a pencil to draw your diagrams and label them clearly. D

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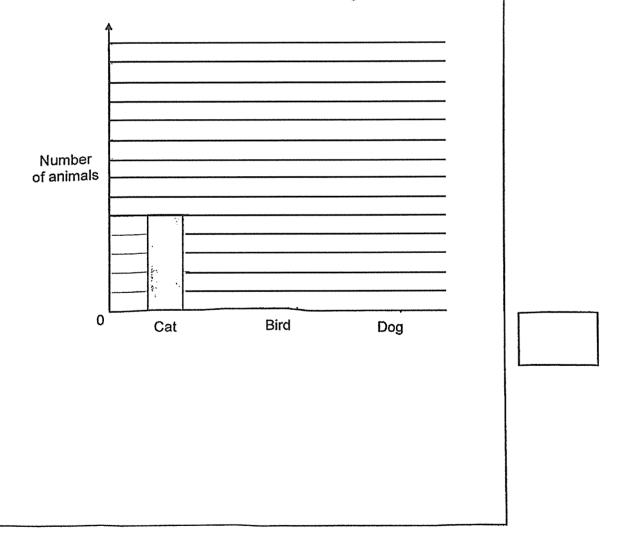
27	A group of students is divided equally into two teams, A and B The ratio of the number of boys to the number of girls in Team A is 1 : 3. The ratio of the number of boys to the number of girls in Team B is 5 : 11. What is the ratio of the total number of boys to the total number of girls in the group?	Do not write in this space
	Ans:	
28	The figure is made up of <u>4 identical rectangles and a square</u> . The length of the rectangle is three times its breadth. The area of the square is 64 cm ² . Find the area of one rectangle.	
	Ans:	



Do not write in this space



The number of animals is also represented by the bar graph below. The bars for the number of birds and dogs have not been drawn. Draw the bars to show the number of birds and dogs in the graph below.



The table below shows the number of each type of books in a class library. There were 40 students in the class. Each student borrowed either 3 or 5 books home to read. No books were left in the class library. How many students borrowed 5 books?

9

Types of books	Number of books borrowed
Horror	35
Scientific	32
Comic	30
Art and Craft	20
Mystery	25

Do not write in this space

Ans: _____

END OF PAPER

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



PRELIMINARY EXAMINATION 2024 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.

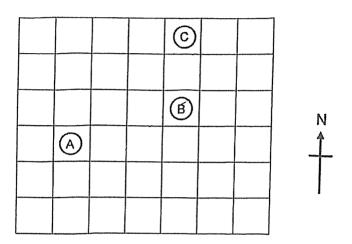
Name:	() Paper 1 Booklet A	/ 20
Class: Date :	Primary 6 19 August 2024	Paper 1 Booklet B	/ 25
Duto.	10 / 10 9001 202 1	Paper 2	/ 55
Parent's S	Signature:	TOTAL	/ 100

This booklet consists of <u>19</u> printed pages including this page.

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

Do not write in this space

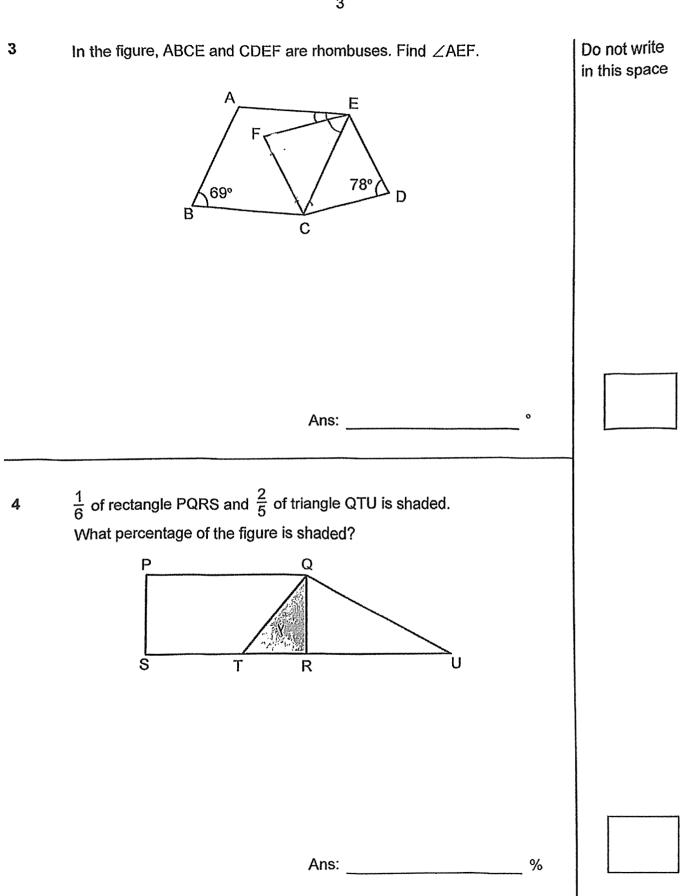
1 The figure shows 3 counters, A, B and C, placed in a square grid.

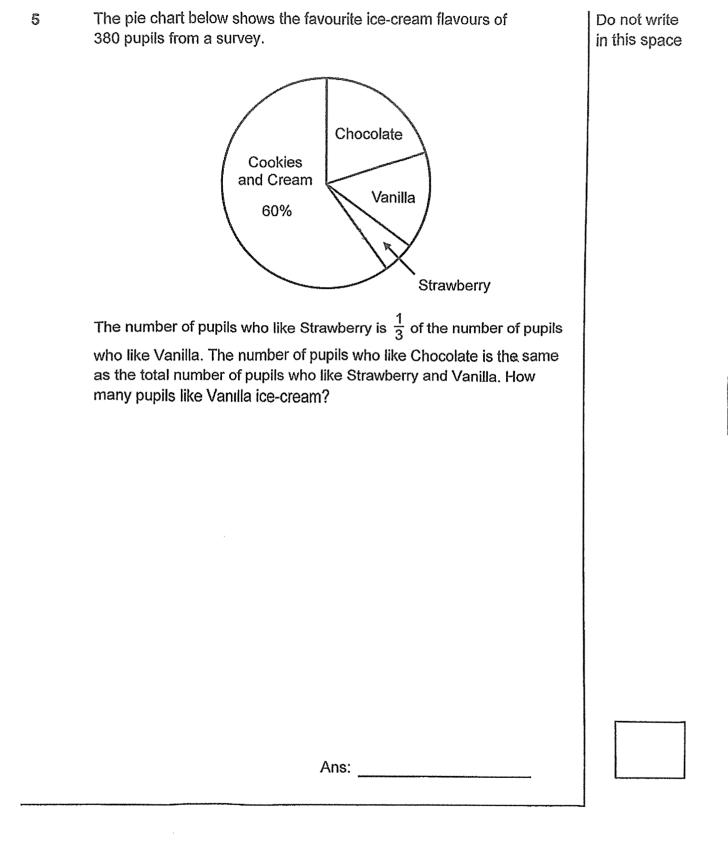


- (a) John places Counter X such that it is North-east of A and North-west of B. Mark the position of Counter X in the grid above, by writing X in the correct square.
- (b) Amy placed Counter Y on one of the squares in the grid. She moved it 2 squares North and then 2 squares East so that it landed on the same square as Counter C. Mark the original position of Counter Y in the grid above, by writing Y in the correct square.
- 2 Mr Lim is 12*n* years old. He is now 3 times as old as his son. How many years old will Mr Lim be when his son is 25 years old? Give your answer in terms of *n*.

Ans:



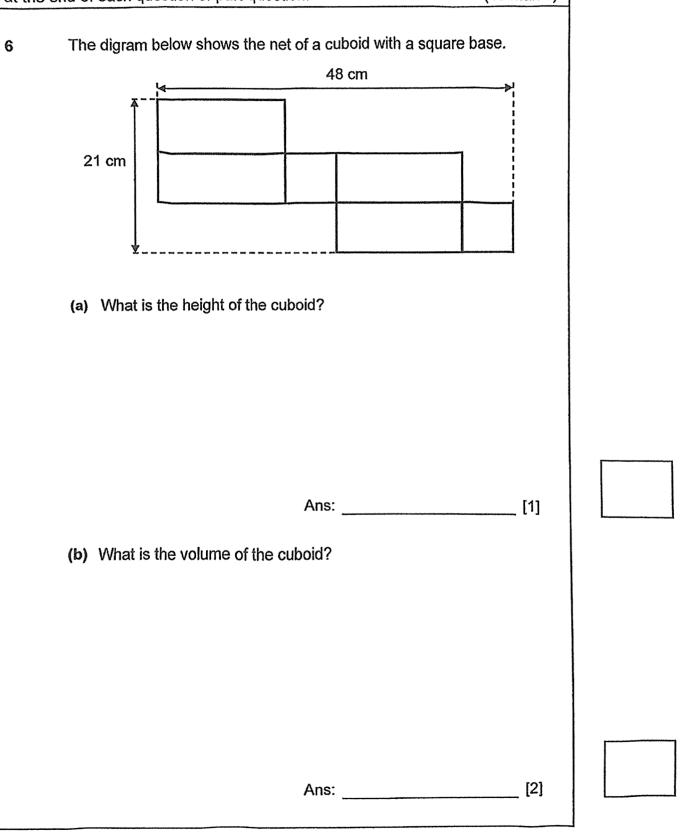




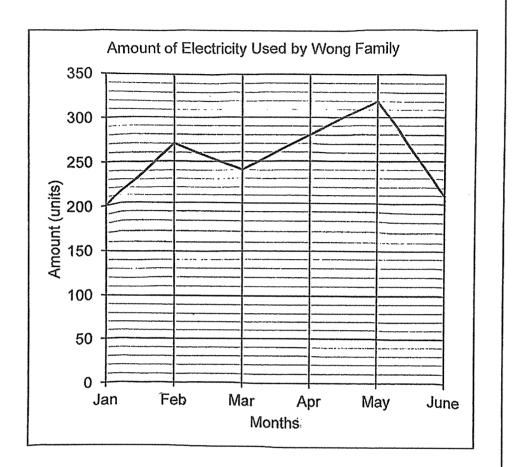
4

For questions to 6 to 17, show your workings 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.Do
in the space of the space

Do not write in this space



The line graph shows the amount of electricity used by the Wong familyDo not writefrom January to June.in this space



(a) Find the percentage decrease in the amount of electricity used from February to March.



7

(b)	In which month was the amount of electricity used $\frac{3}{4}$ that of the amount of electricity used in April?	Do not write in this space
(c)	Ans: [1] The Wong family had to pay 9% GST on top of charges for electricity used. Electricity is charged at \$0.15 per unit. How much did they pay for the electricity used in May?	
	Ans: [2]	

8	Aaron, Benny and Charlie had some marbles. Aaron gave $\frac{2}{5}$ of his marbles to Benny and $\frac{1}{4}$ of the remainder to Charlie. In the end, all 3 of them had the same number of marbles left.	Do not write in this space
	(a) What fraction of his marbles did Aaron have left?	
	 Ans: (a) [1] (b) What was the ratio of the number of marbles Aaron had to the number of marbles Benny had to the number of marbles Charlie had at first? 	
	Ans: (b) [2]	

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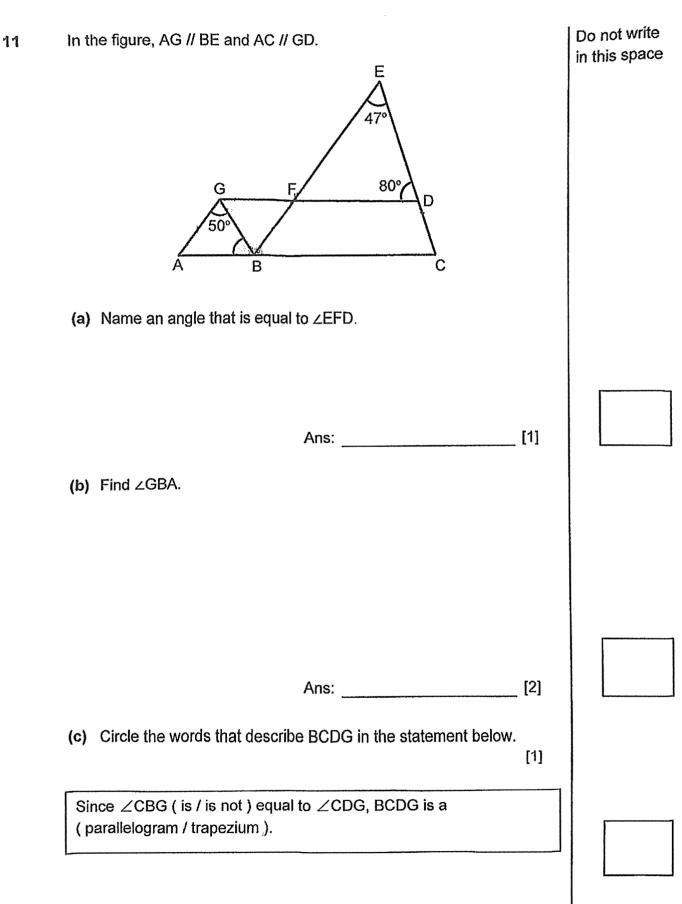
9 A box of greeting cards was shared equally among 35 pupils. 7 of them gave all their cards to the rest of the pupils. As a result, the rest of the pupils received 3 more cards each. How many cards were there in the box at first?

Ans: _____

____ [3]

9

Mr Ahmad left his home at 9.15 a.m. to travel to Town B, 261 km away. Do not write 10 He drove for 90 km at an average speed of 75 km/h. He then stopped in this space for a 20-minute meal break, before continuing his journey to Town B. He reached Town B at 12.35 p.m. What was his average speed for the journey after his meal break? Ans: [3]



12 Xinli and Mark want to save \$164 to buy a gift. Xinli started saving Do not write earlier and she saves \$3 each day. When Xinli has saved for 20 days, in this space Mark would have saved \$20. When Xinli has saved for 26 days, Mark would have saved \$44. Mark saves a same amount each day. (a) How much does Mark save each day? Ans: (a) _____ [2] (b) How many days would Xinli need to save so that they have exactly \$164 to buy the gift? Ans: (b) _____ [2]

Shop X sells a dress at \$450. Shop Y sells the same dress at 80% of the price at Shop X.

(a) What is the price of the dress in Shop Y?

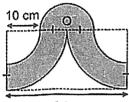
Ans: (a) [1]

(b) During the Great Singapore Sale, Shops X and Y offered the same percentage discount on the dress. Shumei bought the dress in Shop Y and paid \$82.80 less than the discounted price in Shop X. What was the percentage discount offered?

Ans: (b)	[3]	

Do not write in this space

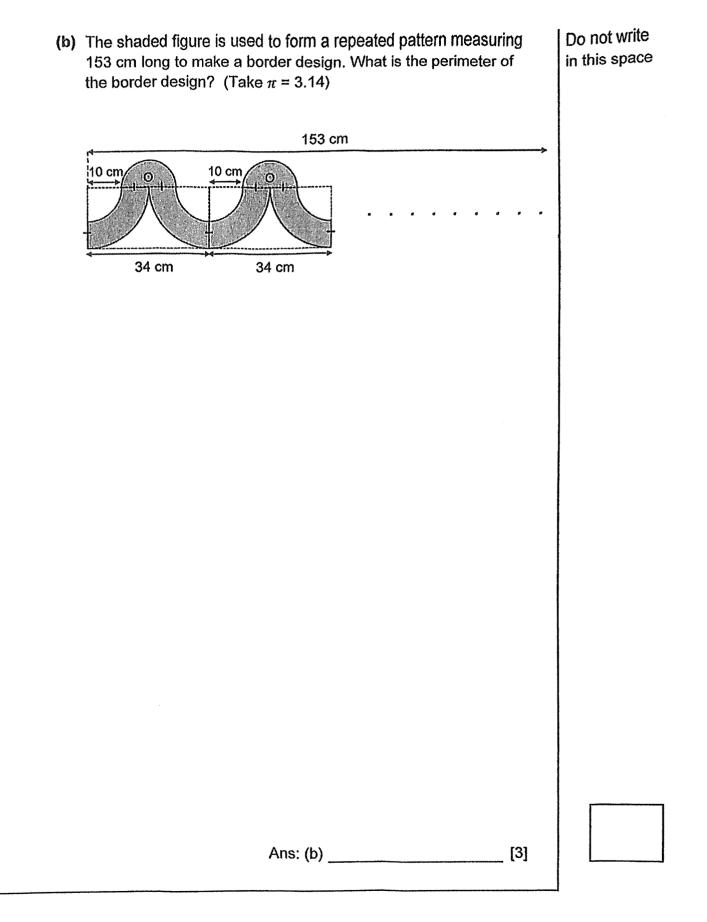
- 14 The diagram below is made up of 1 semicircle, 2 identical small quadrants and 2 identical big quadrants. O is the centre of the semicircle. The radius of the small quadrant is 10 cm.
 - (a) Find the area of the shaded figure. (Take $\pi = 3.14$)



34 cm

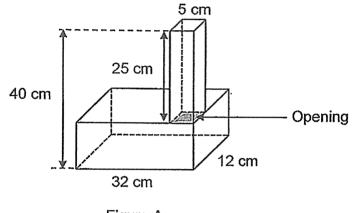


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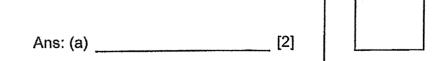


15

15 Figure A shows a 40-cm tall, sealed container that is made up of 2 cuboids. The top of the container is a cuboid which has a square base of side 5 cm and a height of 25 cm. The bottom is a cuboid with a rectangular base, measuring 32 cm by 12 cm. The container contains 5.755 *l* of water which can flow freely between the 2 cuboids through the opening.



- Figure A
- (a) How much more water could the container hold?



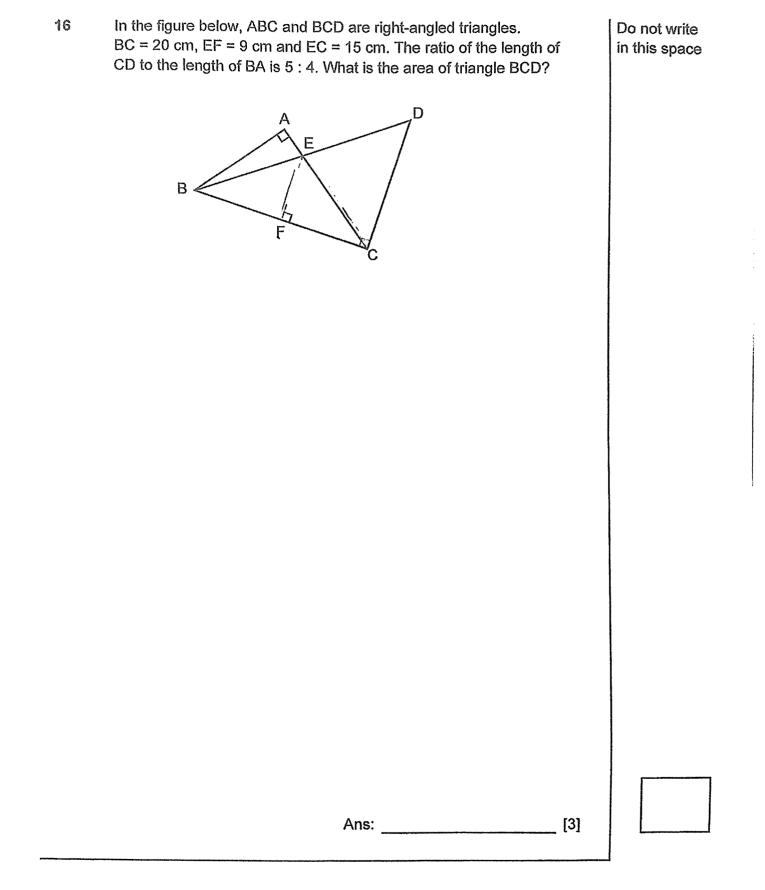
(b) The container was then turned to rest horizontally as shown in Figure B. Find the height of the water level in Figure B.

Figure B

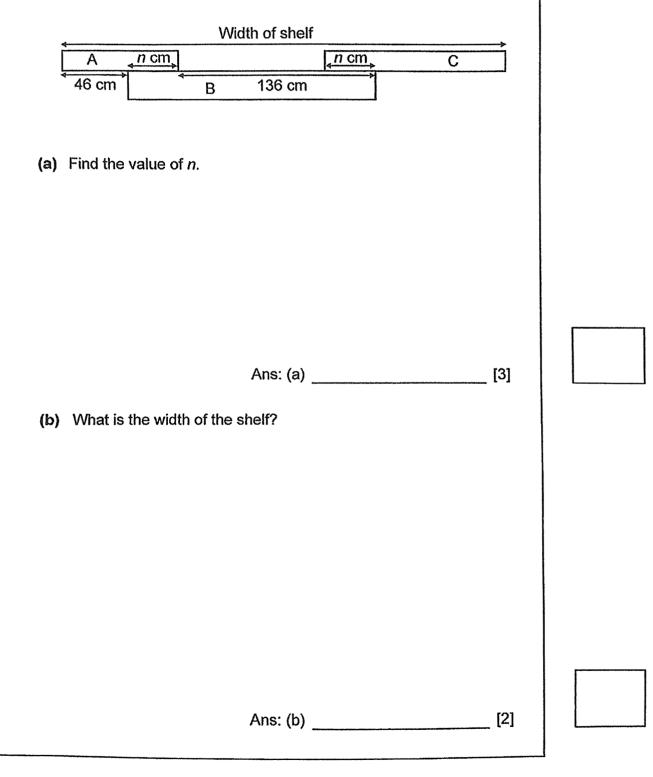
Do not write in this space

Ans: (b) _____

[2]



17 Mr Leong used 3 wooden planks, A, B and C to build a shelf as shown below. The length of plank A is $\frac{5}{11}$ the length of plank B. The length of plank C is $\frac{1}{2}$ the total length of planks A and B.



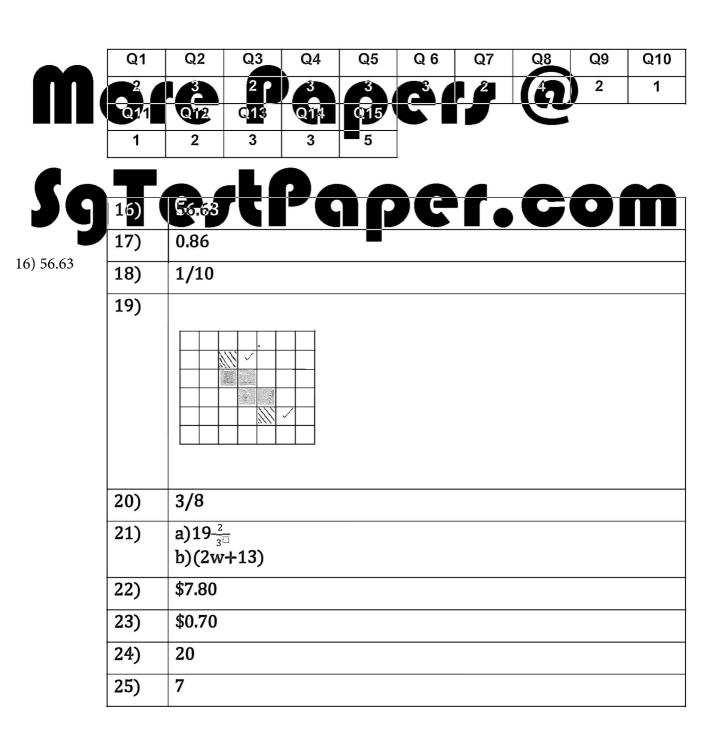
END OF PAPER

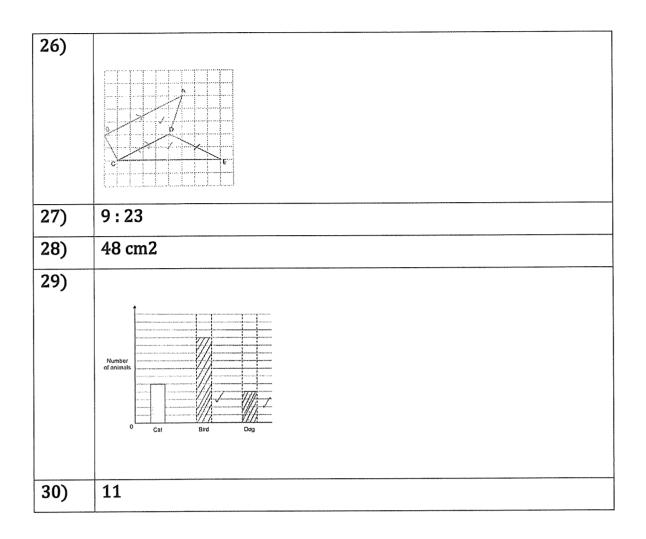
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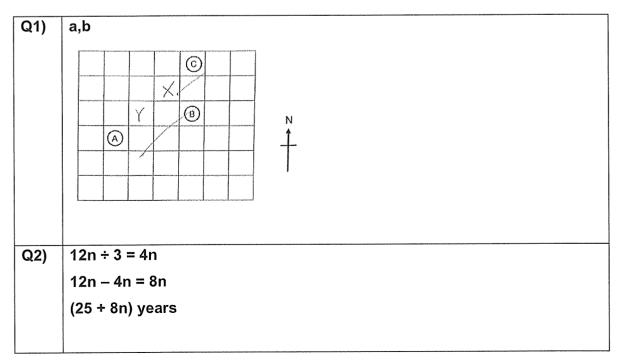
SCHOOL : MGS PRIMARY SCHOOL

LEVEL	-	PRIMARY 6
SUBJECT	:	MATH
TERM	;	2024 PRELIM





PAPER 2



Q3)	$(180 - 78) \div 2 = 5$
	69 – 51 – 18
Q4)	13 <u>1</u> 3 ¹ / ₃ %
Q5)	100 - 60 = 40
	$40 \div 2 = 20$
	40 = 20
	$10 = 20 \div 4 = 5$
	$30 = 5 \times 3 = 15$
	15% x 380 = 57
Q6)	a)21 ÷ 3 = 7
	$48 - 7 \times 2 = 34$
	$34 \div 2 = 17$ cm
	b)7 x 7 x 17 = 833 cm2
Q7)	a)270 – 240 = 30
	$\frac{30}{270^{11}} \times 100 = 11\frac{1}{9}\%$
	2/0
	b)4u = 280 1u = 280 ÷ 4 = 70
	$3u = 270 \times 3 = 210$
	Ans: June
	c)320 x 0.15 = 48
	48 x 109% = \$52.32
Q8)	->> ⁹
	a) $\frac{9}{20}$
	b)20:1:6
Q9)	35 – 7 = 28 28u + 8u = 35u
	7u = 84
	1u = 84 ÷ 7 = 12 35u = 12 x 35 = 420
	$550 - 12 \times 55 - 420$
L	1

Q10) $D \rightarrow 281 - 90 = 171$ 90 + 75 = 1.2 1.2h = 1h 12min $10.27 am \Rightarrow 10.235 pm (1h 48min)1h 48min = 1\frac{4}{5}h171 + 1\frac{4}{5}h = 95 km/hQ11) a) < GFBb) 180 - 80 - 47 = 53180 - 50 - 53 - 77^{\circ}c) not / trapezlumQ12) a) 26 - 20 = 66d \Rightarrow 44 - 20 = 241d \Rightarrow 224 + 6 = \frac{5}{44}b) 164 - 45 = 1194 + 3 = 7119 + 7 = 1717 + 15 = 32Q13) a) 80\% \times 450 = \frac{3360}{90^{11}} \times 100 = 92100 - 92 = 8%Q14) a) 34 - 10 \times 2 = 1414 + 2 = 7\frac{1}{2} \times 3.14 \times 7 \times 7 = 76.9310 + 7 = 17\frac{1}{2} \times 3.14 \times 10 \times 10 = 157453.73 + 57 = 296.73296(-73 + 76.93 = 373.66 cm2b) 494 - 25 = 1515 \times 32 \times 12 = 57605755 L = 5755ml5755 L = 5755ml5755 L = 5630 ml$		
1.2h = 1h 12min 10.27 am $\Rightarrow 10.47$ am (20min) 10.47 am $\Rightarrow 12.35$ pm (1h 48min) 1h 48min = $1\frac{4}{5}$ h 171 ÷ $1\frac{4}{5}$ h = 95 km/h (11) a) < GFB b) 180 - 80 - 47 = 53 180 - 50 - 53 - 77° c) not / trapezium (212) a) 26 - 20 = 6 6d $\Rightarrow 44 - 20 = 24$ 1d $\Rightarrow 24 + 6 = \frac{54}{24}$ b) 164 - 45 = 119 4 + 3 = 7 119 + 7 = 17 17 + 15 = 32 (213) a) 80% x 450 = \$360 b) 450 - 360 = 90 $\frac{32.8}{90^{13}} x 100 = 92$ 100 - 92 = 8% (214) a) 34 - 10 x 2 = 14 14 + 2 = 7 ½ x 3.14 x 17 x 17 = 453.73 ½ x 3.14 x 10 x 10 = 157 453.73 + 57 = 296.73 206.73 + 76.93 = 373.66 cm2 b) 494.42 cm (215) a) 40 - 25 = 15 15 x 32 x 12 = 5760 5755 L = 5755ml 5760 - 5755 = 5 25 x 5 x 5 = 625	Q10)	D→261 – 90 = 171
10.27 am \Rightarrow 10.47 am (20min) 10.47 am \Rightarrow 12.35 pm (1h 48min) 1h 48min = 1 $\frac{4}{5}$ h 171 + 1 $\frac{4}{5}$ h = 95 km/h Q11) a) <gfb b)180 - 80 - 47 = 53 180 - 50 - 53 - 77° c)not / trapezium Q12) a)26 - 20 = 6 6d \Rightarrow 44 - 20 = 24 1d \Rightarrow 24 + 6 = \$4 b)164 - 45 = 119 4 + 3 = 7 119 ÷ 7 = 17 17 + 15 = 32 Q13) a)80% x 450 = \$360 b)450 - 360 = 90 $\frac{92.8}{90}$ x 100 = 92 100 - 92 = 8% Q14) a)34 - 10 x 2 = 14 14 + 2 = 7 ½ x 3.14 x 7 x 7 = 76.93 10 + 7 = 17 ½ x 3.14 x 17 x 17 = 453.73 ½ x 3.14 x 10 x 10 = 157 453.73 + 57 = 296.73 296.73 + 76.93 = 373.66 cm2 b)494.42 cm Q15) a)40 - 25 = 15 15 x 32 x 12 = 5760 5755 L = 5755ml 5760 - 5755 = 5 25 x 5 x 5 = 625</gfb 		
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5760 – 5755 = 5 25 x 5 x 5 = 625		
$25 \times 5 \times 5 = 625$		

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	b)25 x 5 x 5 = 625 5 x 12 x 15 = 900 900 + 625 = 1525 5755 - 1525 = 4230 4230 ÷ 12 ÷ 15 = 23.5 23.5 ÷ 5 = 28.5 cm
Q16)	$\frac{1}{2} \times 20 \times 9 = 90$
	$90 \div 15 = 6$
	6 x 2 = 12
	12 ÷ 4 = 3
	3 x 5 = 15
	½ x 20 x 15 = 150 cm2
Q17)	a)29 cm
	b)302 cm

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