

METHODIST GIRLS' SCHOOL (PRIMARY)
Founded in 1887



PRELIMINARY EXAMINATION 2026
PRIMARY 6
MATHEMATICS

PAPER 1
BOOKLET A

Total Time for Booklets A and B: 1 hour 10 minutes

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 : 18 August 2026

This booklet consists of **8** printed pages including this page.

Questions 1 to 10 carry 1 mark each. Questions 11 to 18 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. (26 marks)

1 Round 95 624 to the nearest thousand.

- (1) 95 000
- (2) 95 600
- (3) 95 620
- (4) 96 000

2 20 tens + 24 hundredths = _____

- (1) 20.24
- (2) 20.024
- (3) 200.24
- (4) 200.024

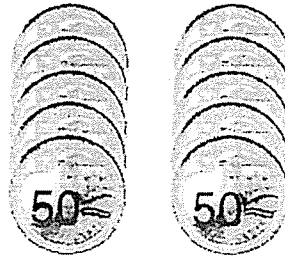
3 Which of the following fractions is greater than $\frac{1}{2}$?

- (1) $\frac{1}{3}$
- (2) $\frac{2}{7}$
- (3) $\frac{3}{5}$
- (4) $\frac{4}{9}$

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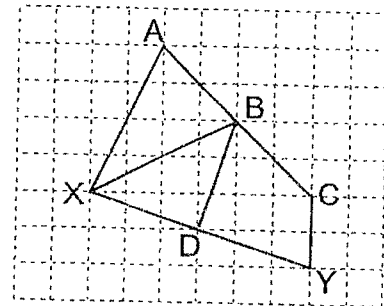
- 4 Which of the following would most likely be the mass of 10 fifty-cent coins?

- (1) 5 g
- (2) 80 g
- (3) 0.5 kg
- (4) 8.8 kg



- 5 Which of the following lines in the square grid is perpendicular to XY?

- (1) AX
- (2) BD
- (3) CY
- (4) XB



- 6 What is the value of $72 - 48 \div 6 + 8 \times 7$?

- (1) 8
- (2) 60
- (3) 84
- (4) 120

7 $10 \times \frac{3}{8} = \underline{\hspace{1cm}} \times \frac{3}{4}$

- (1) 5
- (2) 2
- (3) 6
- (4) 20

8 What is the missing number in the box?

$$4 : 7 = \boxed{?} : 56$$

- (1) 11
- (2) 28
- (3) 32
- (4) 53

9 Which of the figures below does not have a line of symmetry?

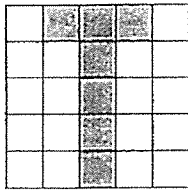


Figure 1

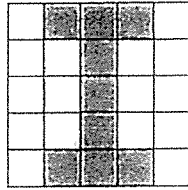


Figure 2

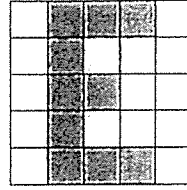


Figure 3

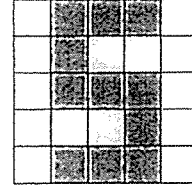
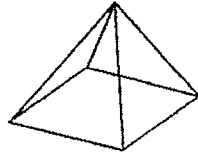


Figure 4

- (1) Figure 1
- (2) Figure 2
- (3) Figure 3
- (4) Figure 4

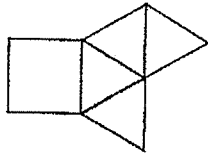
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- 10 The figure shows a pyramid.

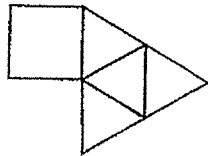


Which one of the following is a net of the pyramid?

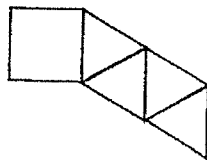
(1)



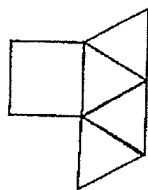
(2)



(3)



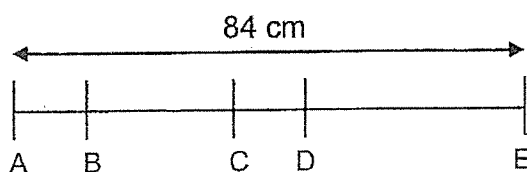
(4)



11 The total area of all the faces of a cube is 384 cm^2 . What is the volume of the cube?

- (1) 64 cm^3
- (2) 512 cm^3
- (3) 4096 cm^3
- (4) $32\,768 \text{ cm}^3$

12 In the diagram below, the ratio of BC to AC is $2 : 3$.
The ratio of BC to BD is $2 : 3$. BD is half of BE. $AE = 84 \text{ cm}$.
What is the length of DE?

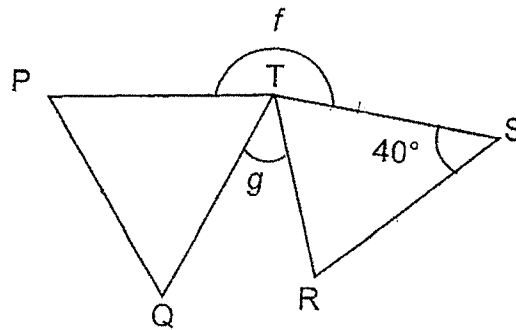


- (1) 42 cm
 - (2) 36 cm
 - (3) 18 cm
 - (4) 12 cm
- 13 Esther packed 63 apples and 28 pears into as many bags as she could. The total number of fruits in each bag was the same. Each bag contained the same number of apples. How many fruits were there in each bag?

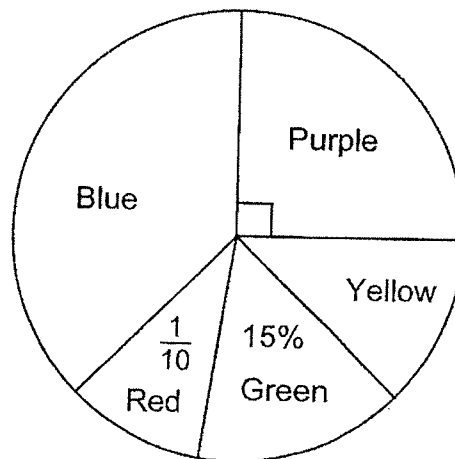
- (1) 7
- (2) 9
- (3) 13
- (4) 14

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- 14 PQT is an equilateral triangle. RST is an isosceles triangle. $RS = ST$.
 $\angle RST = 40^\circ$. Find $\angle f + \angle g$.



- (1) 100°
 (2) 130°
 (3) 230°
 (4) 260°
- 15 The pie chart below shows the number of beads Zarah has of each colour. She has 3 times as many yellow beads than blue beads.



What fraction of Zarah's beads are blue?

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

- 16 3 friends booked a badminton court ~~from~~ ^{from} 11.00 am to 1.30 pm. Only 2 of them played on court each time while the other one rested. Each of them had the same amount of playing time on court. How many minutes did each of them play on court?

- (1) 50
- (2) 65
- (3) 90
- (4) 100

- 17 To receive a Gold Award in a Science Quiz, a pupil must score an average of 91 or more in 3 rounds. Ethan scored 89 and 88 in the first two rounds. What is the lowest score he must obtain in the third round to receive the Gold Award?

- (1) 87
- (2) 90
- (3) 94
- (4) 96

- 18 The table below shows the amount of time taken by Machines A and B to print the same number of pamphlets.

Machine A	Machine B
3 minutes	7 minutes

Both machines started printing pamphlets at the same time and continued printing at a constant rate. Machine A prints 12 more pamphlets than Machine B per minute.

How many pamphlets can both machines print in 6 minutes?

- (1) 54
- (2) 72
- (3) 126
- (4) 180

(Go on to Booklet B)

METHODIST GIRLS' SCHOOL (PRIMARY)

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PRELIMINARY EXAMINATION 2026 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour 10 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

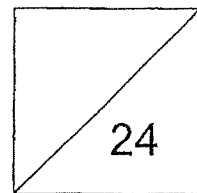
Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6. _____

Date : 18 August 2026



Parent's Signature: _____

This booklet consists of **8** printed pages including this page.

Questions 19 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. (24 marks)

Do not write
in this space

19 (a) Find the value of $59 \div 7$. Round your answer to 2 decimal places.

Ans: (a) _____

(b) Find the value of 2.3×600 .

Ans: (b) _____

20 (a) Find the value of $\frac{5}{6} - \frac{2}{9}$.

Ans: (a) _____

(b) Express $8\frac{3}{20}$ as a decimal.

Ans: (b) _____

21 (a) Simplify $3y + 7 + 5y - 2$

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Ans: (a) _____

(b) Find the value $\frac{3}{8} \times \frac{z}{10}$ when $z = 6$.

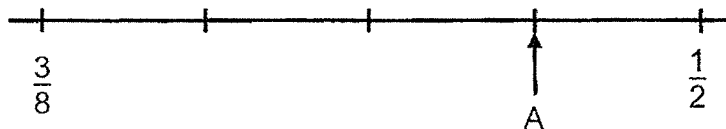
Ans: (b) _____

22 Audrey has a piece of ribbon measuring 5 m. She cut it into 8 equal pieces. What is the length of each piece of ribbon?

Ans: _____ cm

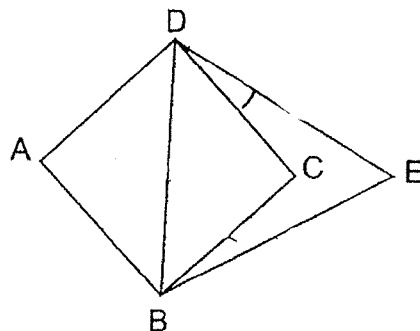
23

In the number line, what is the fraction represented by A?

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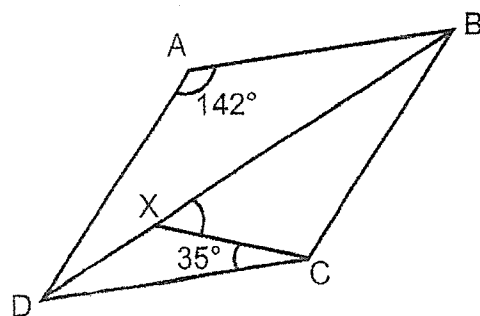
Ans: _____

24

ABCD is a square and BED is an equilateral triangle. Find $\angle CDE$.

Ans: _____

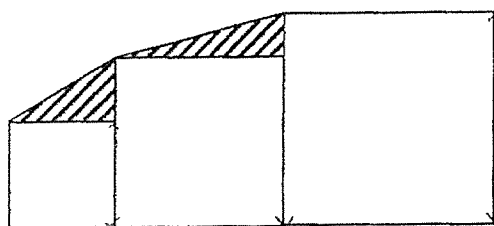
- 25 ABCD is a rhombus. Find $\angle BXC$.



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Ans: _____

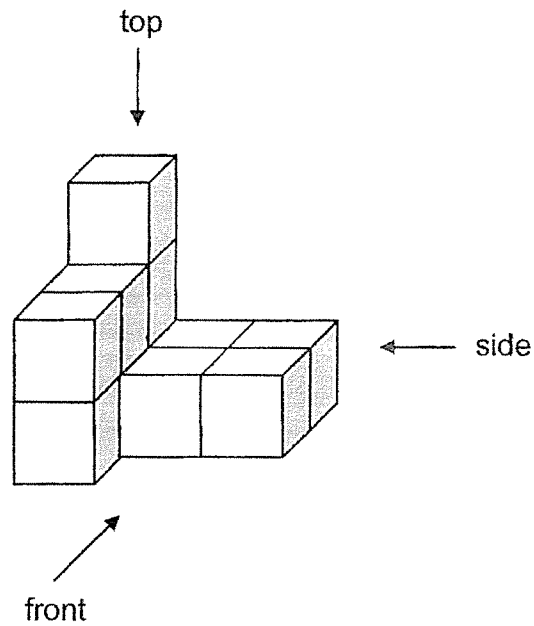
- 26 The figure below is made up of 3 squares and 2 triangles. The areas of the 3 squares are 25 cm^2 , 64 cm^2 and 100 cm^2 . Find the total area of the 2 triangles.



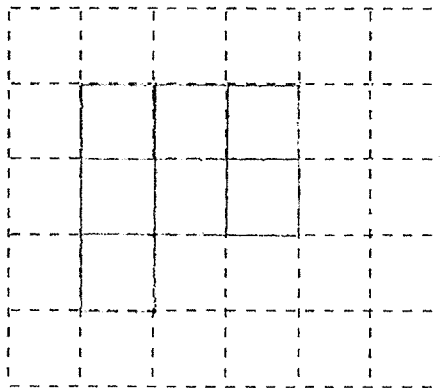
Ans: _____ cm^2

(Go on to the next page)

- 27 The solid below is made up of 1-cm cubes.



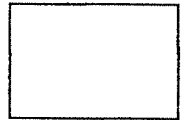
- (a) Draw the top view of the solid as seen from the front.



- (b) What is the greatest number of 1-cm cubes that can be added to the solid such that its top and side views do not change?

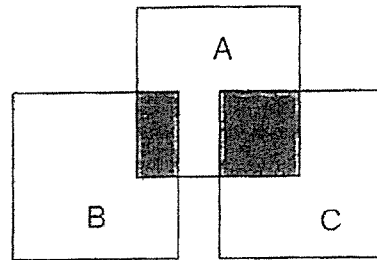
Ans:(b) _____

Do not write
in this space



28

The figure below is made up of 3 overlapping identical squares, A, B and C. $\frac{1}{8}$ of B is shaded and $\frac{1}{4}$ of C is shaded. What fraction of the figure is not shaded?



Ans: _____

Do not write
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29

Figure 1 is a ^{shape}trapezium. Figure 2 is made up of 4 such ^{shapes}trapeziums.

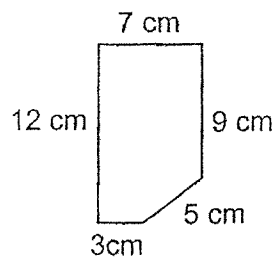


Figure 1

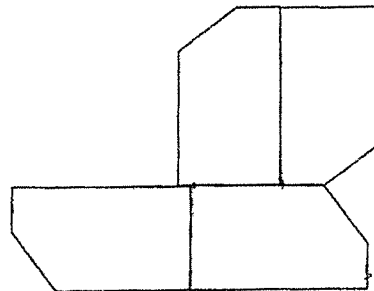


Figure 2

What is the perimeter of Figure 2?

Ans: _____ cm

(Go on to the next page)

30

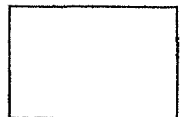
At a mass dance, participants are numbered and stood in a pattern as shown below.

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	Column A	Column B	Column C	Column D
Row 1	1	2	3	
Row 2		6	5	4
Row 3	7	8	9	
Row 4		12	11	10
Row 5	13	14	15	
Row 6		18	17	16
Row 7	19	20	21	
⋮				

In which row and column will participant 287 be?

Ans: Row _____, Column _____



END OF PAPER

METHODIST GIRLS' SCHOOL (PRIMARY)

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PRELIMINARY EXAMINATION 2026 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1 h 20 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: _____ ()

Class: Primary 6. _____

Date : 18 August 2026

Parent's Signature: _____

Paper 1 Booklet A	/ 26
Paper 1 Booklet B	/ 24
Paper 2	/ 50
TOTAL	/ 100

This booklet consists of 17 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 answers in the units stated. (10 marks)

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- 1 40 students took a quiz. The table below shows the number of questions the students answered correctly.

Number of questions answered correctly	Number of students
5	9
4	17
3	14

What is the average number of questions each student answered correctly?

Ans: _____

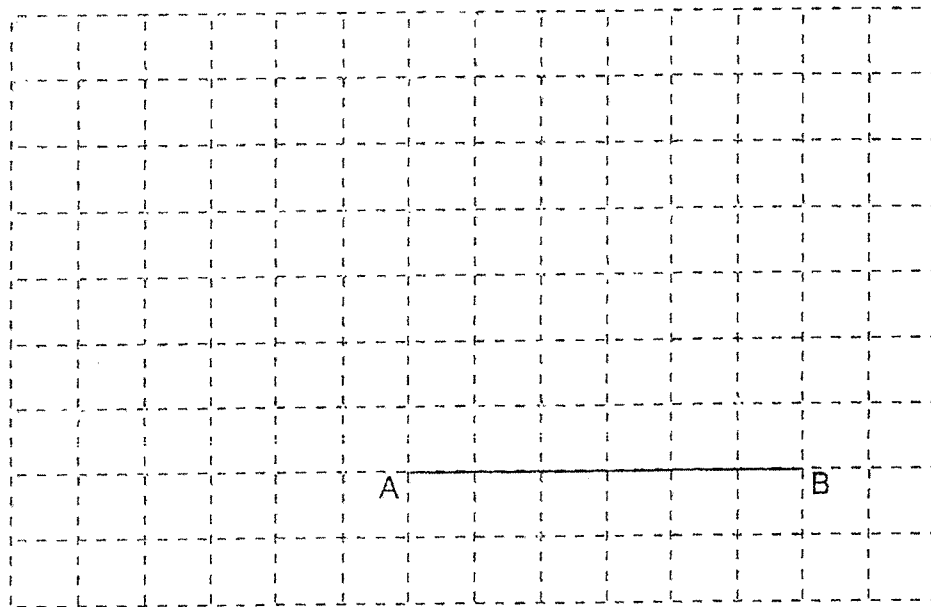
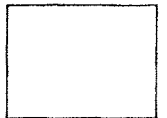


2

The square grid shows line AB.

- (a) AB is one side of a right-angled triangle ABC with $\angle ACB = 90^\circ$. Draw triangle ABC and label the point C.
- (b) The length of AC is half that of DE. Without overlapping triangle ABC, draw a trapezium ACDE, with DE parallel to AC. Label points D and E.

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(Go on to the next page)

- 3 Mary made a necklace using black and white beads. Part of the necklace is shown below.



She used a total of 195 beads altogether. How many white beads did she use?

Ans: _____

Do not write
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- 4 Fiona had a square piece of paper of side 40 cm. She cut out as many right-angled triangles as possible from the paper. Each right-angled triangle had a base of 12.8 cm and a height of 5 cm.

(a) How many right-angled triangles did Fiona cut out?

Ans: (a) _____

(b) What area of the paper was left?

Ans: (b) _____ cm^2

- 5 Emily bought 12 curry puffs with 36% of her money. She wanted to buy an additional 70 curry puffs but was short of \$73.
How much money did she have at first?

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Ans: \$ _____

(Go on to the next page)

For questions 6 to 15, 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. (40 marks)

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- 6 Mr Tan is $3n$ years older than his daughter. In 5 years' time, Mr Tan will be twice his daughter's age.

(a) Find Mr Tan's age now in terms of n .

Ans: (a) _____ [1]

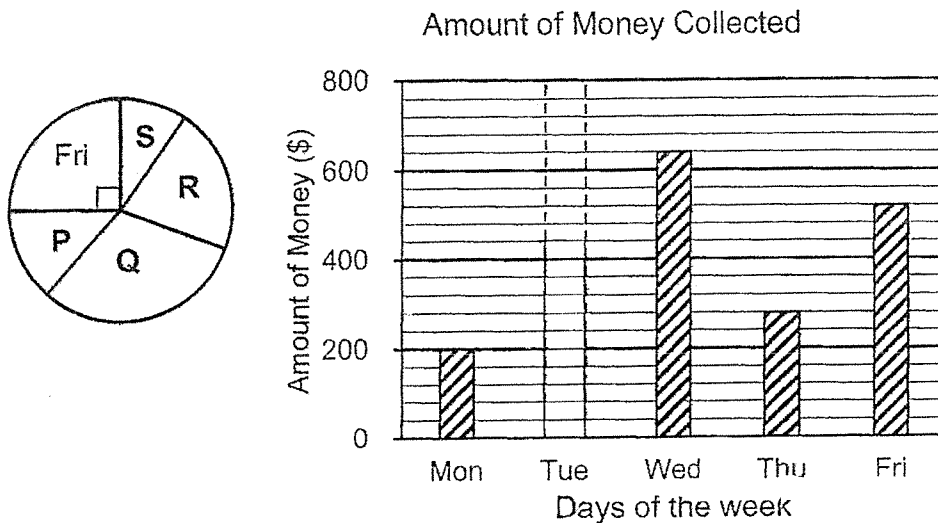
- (b) Given that Mr Tan's daughter is 25 years old now, find the value of n .

Ans: (b) _____ [2]

7

The bar graph and pie chart below show the amount of money Mr Lee collected from selling ice-cream from Monday to Friday. The amount collected on Tuesday is not shown on the bar graph. Study the graph and answer the following questions.

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- (a) What was the total amount of money collected?

Ans: (a) \$ _____ [1]

- (b)(i) How much money was collected on Tuesday?

Ans: (b)(i) \$ _____ [1]

- (ii) Complete the bar graph to show the amount of money collected on Tuesday. [1]

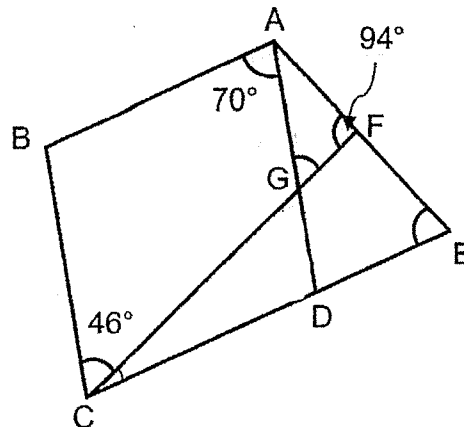
- (c) Which of the letters P, Q, R or S in the pie chart represents Thursday?

Ans: (c) _____ [1]

(Go on to the next page)

- 8 ABCD is a rhombus. CDE and AFE are straight lines.

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- (a) Find $\angle AGF$.

Ans: (a) _____[°] [1]

- (b) Find $\angle CEF$.

Ans: (b) _____[°] [2]

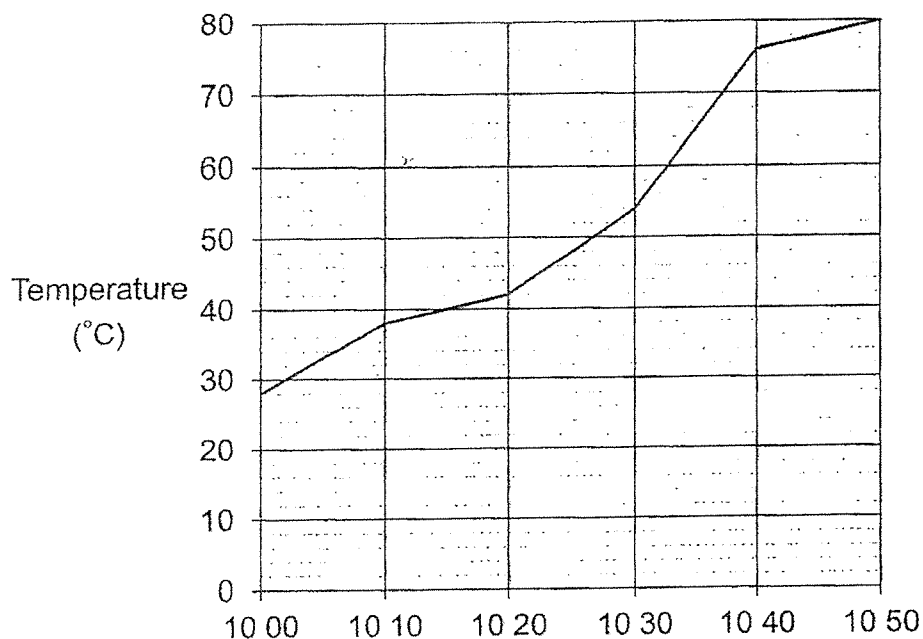
- (c) Circle the correct words so that the statement below is true.

Triangle ADE (is , is not) an isosceles triangle because $\angle ADE$
(is, is not) equal to $\angle AED$.

[1]

9

The line graph shows the temperature of water recorded during a Science experiment from 10 00 to 10 50.



- (a) What was the temperature of the water recorded at 10 10?

Ans: (a) _____ °C [1]

- (b) Between which ten-minute interval was the increase in temperature the greatest?

Ans: (b) _____ and _____ [1]

- (c) What was the percentage increase in the temperature from 10 20 to 10 30? Give your answer correct to 1 decimal place.

Ans: (c) _____ % [2]

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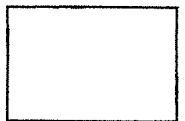
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10

Some 1-cm cubes were glued together to form a cuboid. The cuboid was then dipped into paint. 36 cubes had none of their faces painted. What was the smallest possible volume of the cuboid?

Do not write
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Ans: _____ cm^3 [3]



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- 11 Siti baked some strawberry and chocolate muffins. She gave $\frac{2}{5}$ of the strawberry muffins and $\frac{1}{3}$ of the chocolate muffins to her friend. In the end, she had $\frac{4}{9}$ as many chocolate muffins as strawberry muffins left.

(a) What fraction of all the muffins baked did she give to her friend?

Ans: (a) _____ [2]

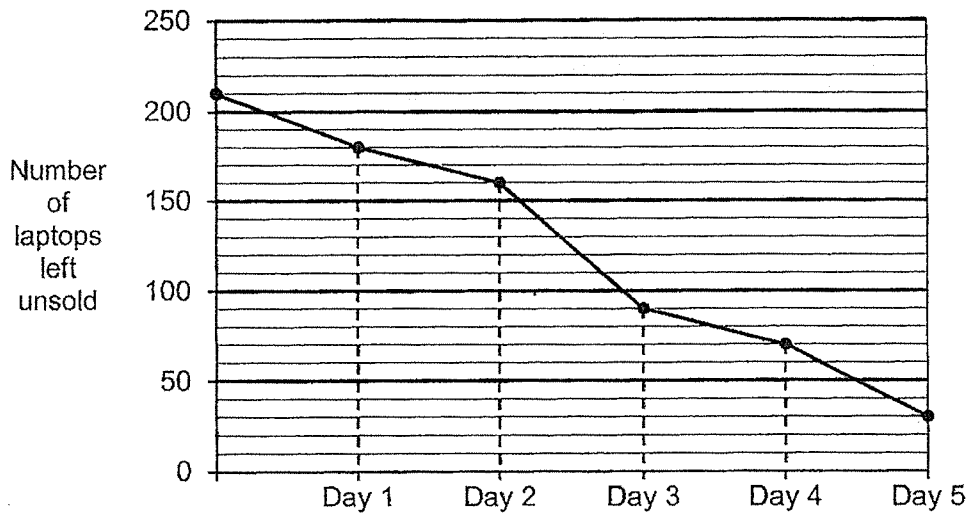
(b) She had 50 more strawberry muffins than chocolate muffins left. How many muffins did she bake in all?

Ans: (b) _____ [2]

(Go on to the next page)

12

At an IT fair, a company sold their laptops over a period of 5 days. The graph below shows the number of laptops left unsold at the end of each day.



- (a) How many laptops were left unsold at the end of the IT fair?

Ans: (a) _____ [1]

- (b) On which 2 days did the company sell the same number of laptops?

Ans: (b) Day _____ and Day _____ [1]

- (c) The company collected \$233 820 at the end of the IT fair. Each laptop was sold at the same price. How much did they sell each laptop for?

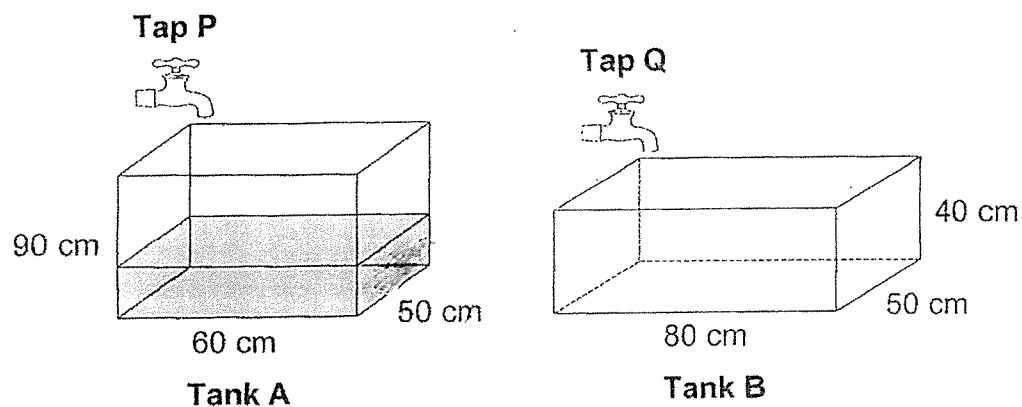
Ans: (c) \$ _____ [2]

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13

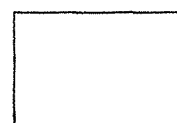
Tank A measuring 60 cm by 50 cm by 90 cm was $\frac{1}{3}$ - filled with water.

Do not write
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- (a) $\frac{1}{2}$ of the water in Tank A was poured into an empty Tank B, which measured 80 cm by 50 cm by 40 cm. What was the height of the water level in Tank B?

Ans: (a) _____ cm [2]



(Go on to the next page)

- (b) After water was poured from Tank A to Tank B, Taps P and Q were turned on at the same time. Water flowed into Tank A at a rate of 1.8 ℓ /min. Tanks A and B became half-filled with water at the same time. How many litres of water flowed into Tank B in one minute?

Ans: (b) _____ ℓ [3]



14

The shape in Figure A is formed by cutting out a small semicircle from a quarter circle. The diameter of the semicircle is 10 cm. Figure B is formed by joining 3 of the shapes from Figure A.

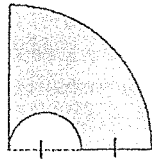


Figure A

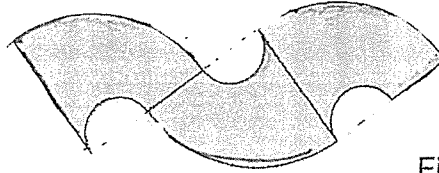


Figure B

- (a) Find the perimeter of Figure B. (Take $\pi = 3.14$)

Ans: (a) _____ cm [3]

- (b) Find the area of the Figure B. (Take $\pi = 3.14$)

Ans: (b) _____ cm^2 [2]

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(Go on to the next page)

- 15 The table below shows the ticket prices for entry into Cove Park.

Type	Price of ticket
Adult	\$43 each
Child	\$32 each

- (a) In July, Suresh bought 5 adult and 6 child tickets to Cove Park.
How much did he pay for the tickets altogether?

Do not write
in this space

Ans: (a) \$ _____ [1]

- (b) In August, Cove Park offered 2 promotion packages as shown in the table below.

Type	Price of ticket
Adult	\$43 each
Child	\$32 each
August Promotion	
Package A (2 Adult + 1 Child)	\$114
Package B (1 Adult + 2 children)	\$102
Tickets can be bought in any combinations	

Andy bought 5 adult and 6 child tickets at the lowest possible price. How much less did Andy pay than Suresh for the tickets?

Ans: (b) \$ _____ [3]



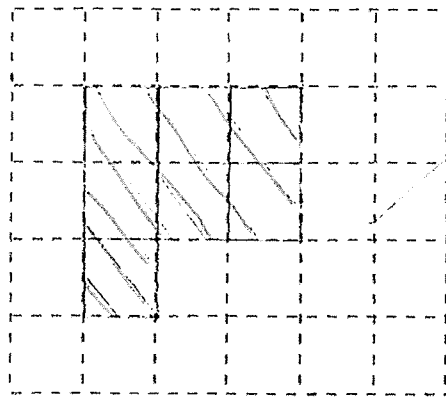
END OF PAPER

YEAR : 2026
LEVEL : PRIMARY 6
SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATION

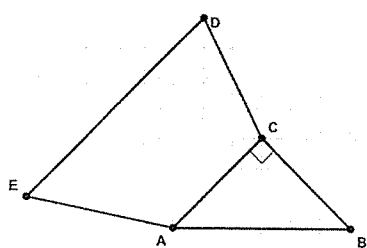
(BOOKLET A)

Q1	4	Q2	3	Q3	3	Q4	2	Q5	2	Q6	4
Q7	1	Q8	3	Q9	4	Q10	1	Q11	2	Q12	2
Q13	3	Q14	3	Q15	1	Q16	4	Q17	4	Q18	4

(BOOKLET B)

Q19	(a) $59 \div 7 = 8.428\dots$ $= 8.43$ (to 2 decimal places) (b) $2.3 \times 600 = 1380$	Q20	(a) $\frac{5}{6} - \frac{2}{9} = \frac{15}{18} - \frac{4}{18}$ $= \frac{11}{18}$ (b) $8\frac{3}{20} = 8 + 0.15$ $= 8.15$
Q21	(a) $3y + 7 + 5y - 2$ $= 8y + 5$ (b) $\frac{3}{8} \times \frac{6}{10} = \frac{18}{80}$ $= \frac{9}{40}$	Q22	5 m = 500 cm $500 \div 8 = 62.5$ cm
Q23	$\frac{1}{2} - \frac{3}{8} = \frac{1}{8}$ $\frac{1}{8} \div 4 = \frac{1}{32}$ $A = \frac{3}{8} + 3 \times \frac{1}{32}$ $= \frac{15}{32}$	Q24	$\angle BDE = 60^\circ$ $\angle BDC = 90^\circ \div 2 = 45^\circ$ $\angle CDE = 60^\circ - 45^\circ = 15^\circ$
Q25	$\angle BCD = 180^\circ - 142^\circ = 38^\circ$ $\angle BDC = 38^\circ \div 2 = 19^\circ$ $\angle DXC = 180^\circ - 19^\circ - 35^\circ = 126^\circ$ $\angle BXC = 180^\circ - 126^\circ = 54^\circ$	Q26	Side lengths of the squares: 5 cm, 8 cm and 10 cm Area of first triangle $= \frac{1}{2} \times 5 \times (8 - 5)$ $= 7.5 \text{ cm}^2$ Area of second triangle $= \frac{1}{2} \times 8 \times (10 - 8) = 8 \text{ cm}^2$ Total area $= 7.5 + 8 = 15.5 \text{ cm}^2$
Q27	(a) Top view  (b) $3 \times 2 = 6$ cubes	Q28	Let the area of each square be 8 units. Area of figure $= 8 + 8 + 8 - 1 - 2 = 21$ units Unshaded area $= 21 - 1 - 2 = 18$ units Fraction not shaded $= \frac{18}{21} = \frac{6}{7}$

Q29	Perimeter of one shape = $7 + 9 + 5 + 3 + 12 = 36$ cm Total of four perimeters = $4 \times 36 = 144$ cm Total length of shared edges = 30 cm Perimeter of Figure 2 = $144 - 2 \times 30 = 84$ cm	Q30	$3 \times 96 = 288$ Row 96 is even: Column B = 288, Column C = 287, Column D = 286 Row 96, Column C
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Q1	$5 \times 9 + 4 \times 17 + 3 \times 14 = 155$ $155 \div 40 = 3.875$ questions	Q2	
Q3	White beads in one repeating group $= 2 + 3 + 4 = 9$ Beads in one repeating group $= 9 + 6 = 15$ $195 \div 15 = 13$ groups $13 \times 9 = 117$ white beads	Q4	(a) $40 \div 12.8 = 3$ remainder 1.6 $40 \div 5 = 8$ $3 \times 8 \times 2 = 48$ triangles (b) Area of paper $= 40 \times 40 = 1600 \text{ cm}^2$ Area of 48 triangles $= 48 \times \frac{1}{2} \times 12.8 \times 5 = 1536 \text{ cm}^2$ Area left $= 1600 - 1536 = 64 \text{ cm}^2$
Q5	Cost of 1 curry puff $= 36\% \div 12 = 3\%$ of her money Cost of 70 curry puffs $= 70 \times 3\% = 210\%$ of her money Money left $= 100\% - 36\% = 64\%$ $210\% - 64\% = 146\%$ $146\% = \\$73$ $100\% = \\$73 \div 146 \times 100 = \\50	Q6	(a) Daughter's age now $= 3n - 5$ Mr Tan's age now $= (3n - 5) + 3n = 6n - 5$ years (b) $3n - 5 = 25$ $3n = 30$ $n = 10$
Q7	(a) Friday is $\frac{1}{4}$ of the pie chart. $\\$520 \times 4 = \\2080 (b)(i) $\\$2080 - \\$200 - \\$640 - \\$280 - \\$520 = \\440 (b)(ii) Draw Tuesday's bar to \$440. (c) P	Q8	(a) $\angle FCD = 70^\circ - 46^\circ = 24^\circ$ $\angle AGF = 180^\circ - 24^\circ - 110^\circ = 46^\circ$ (b) $\angle CFE = 180^\circ - 94^\circ = 86^\circ$ $\angle CEF = 180^\circ - 24^\circ - 86^\circ = 70^\circ$ (c) Triangle ADE is an isosceles triangle because $\angle ADE$ is equal to $\angle AED$.

Q9	(a) 38°C (b) 10:30 and 10:40 (c) $\frac{54 - 42}{42} \times 100\% = 28.571\ldots\%$ = 28.6% (to 1 decimal place)	Q10	Interior dimensions multiply to 36. $2 \times 3 \times 6 = 36$ gives cuboid $4 \times 5 \times 8 = 160 \text{ cm}^3$ $3 \times 3 \times 4 = 36$ gives cuboid $5 \times 5 \times 6 = 150 \text{ cm}^3$ Smallest possible volume = 150 cm^3
Q11	Strawberry : chocolate muffins baked = 5 : 2 Strawberry left = 3 units; chocolate left = $\frac{4}{3}$ units (a) Given away = $2 + \frac{2}{3} = \frac{8}{3}$ units Fraction given away = $\frac{8 \div 3}{7} = \frac{8}{21}$ (b) $3 - \frac{4}{3} = \frac{5}{3}$ units $\frac{5}{3}$ units = 50; 1 unit = 30 Total baked = $7 \times 30 = 210$ muffins	Q12	(a) 30 laptops (b) Day 2 and Day 4 (c) Laptops sold = $210 - 30 = 180$ $\\$233,820 \div 180 = \\1299
Q13	(a) Water in Tank A = $\frac{1}{3} \times 90 \times 60 \times 50 = 90,000 \text{ cm}^3$ Water poured into Tank B = $90,000 \div 2 = 45,000 \text{ cm}^3$ Height in Tank B = $45,000 \div (80 \times 50) = 11.25 \text{ cm}$ (b) Water needed by Tank A = $\frac{1}{2} \times 270,000 - 45,000 = 90,000 \text{ cm}^3 = 90 \text{ l}$ Time taken = $90 \div 1.8 = 50 \text{ min}$ Water needed by Tank B = $\frac{1}{2} \times 160,000 - 45,000 = 35,000 \text{ cm}^3 = 35 \text{ l}$ Rate of Tap Q = $35 \div 50 = 0.7 \text{ l/min}$	Q14	Radius of quarter circle = $10 + 10 = 20 \text{ cm}$ (a) Three quarter-circle arcs = $3 \times \frac{1}{4} \times 2 \times 3.14 \times 20 = 94.2 \text{ cm}$ Three semicircle arcs = $3 \times \frac{1}{2} \times 3.14 \times 10 = 47.1 \text{ cm}$ Straight sides = $20 + 10 = 30 \text{ cm}$ Perimeter = $94.2 + 47.1 + 30 = 171.3 \text{ cm}$ (b) Area of one shape = $\frac{1}{4} \times 3.14 \times 20^2 - \frac{1}{2} \times 3.14 \times 5^2$ $= 314 - 39.25 = 274.75 \text{ cm}^2$ Area of Figure B = $3 \times 274.75 = 824.25 \text{ cm}^2$
Q15	(a) $5 \times \\$43 + 6 \times \\$32 = \\$407$ (b) Lowest price: $3 \times \text{Package B} + 2 \text{ individual adult tickets}$ $3 \times \\$102 + 2 \times \\$43 = \\$392$ $\\$407 - \\$392 = \\$15 \text{ less}$		

