PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

2026 PRELIMINARY EXAMINATION

PRIMARY SIX

MATHEMATICS
PAPER 1
(BOOKLET A)

NAME : _____ ( )

CLASS : P 6 _____

DATE : 18 August 2026

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

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators is **NOT** allowed.
6. This booklet consists of **9** printed pages.

	Marks Obtained	/	Maximum Marks
PAPER 1 (Booklet A)		/	26
PAPER 1 (Booklet B)		/	24
PAPER 2		/	50
TOTAL		/	100

PARENT'S SIGNATURE: _____

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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. What is the value of the digit 6 in 670 345?

   (1) 600
   (2) 6000
   (3) 60 000
   (4) 600 000

2. A number when rounded to the nearest thousand is 500 000. What is the number?

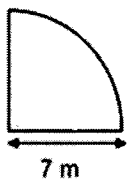
   (1) 499 491
   (2) 499 500
   (3) 500 549
   (4) 500 913

3. Express 7009 m as km and m.

   (1) 7 km 9 m
   (2) 7 km 90 m
   (3) 70 km 9 m
   (4) 70 km 90 m

4. Find the perimeter of a quarter circle with a radius of 7 m. (Take $\pi = \frac{22}{7}$)

   (1) 11 m
   (2) 18 m
   (3) 25 m
   (4) 44 m



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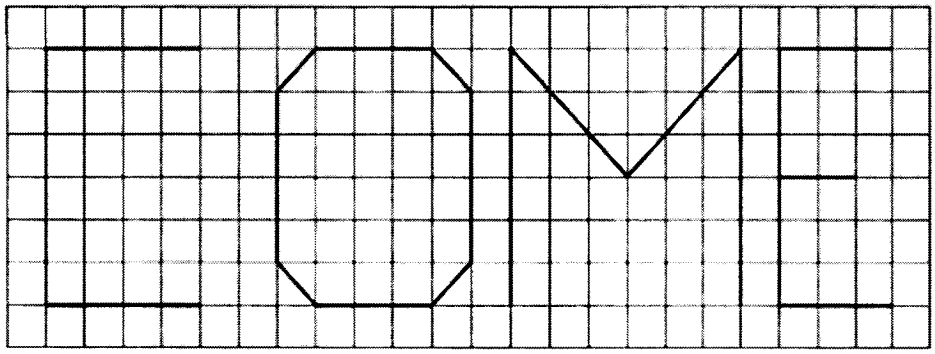
5. The train schedule between Woodlands and Johor Bahru is shown below.

Leaves Woodlands	Reaches Johor Bahru
08 30	08 35
09 45	09 50
11 00	11 05
12 30	12 35
13 45	13 50

Rachel misses the 09 45 train by 50 minutes.
What is the earliest time she can reach Johor Bahru by train?

(1) 11 00
(2) 11 05
(3) 12 30
(4) 12 35

6. In the diagram below, the letters, C, O, M and E, are drawn on a square grid.

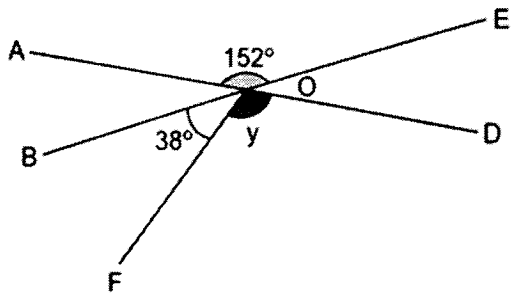


How many of the above letters have more than one pair of parallel lines?

(1) 1
(2) 2
(3) 3
(4) 4

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7. AOD and BOE are straight lines. ∠ BOF = 38° and ∠ AOE = 152°. Find ∠ y.



(1) 170°
(2) 142°
(3) 126°
(4) 114°

8. Find the value of $7x + 4 - 2x$ when $x = 6$.

(1) 30
(2) 34
(3) 54
(4) 58

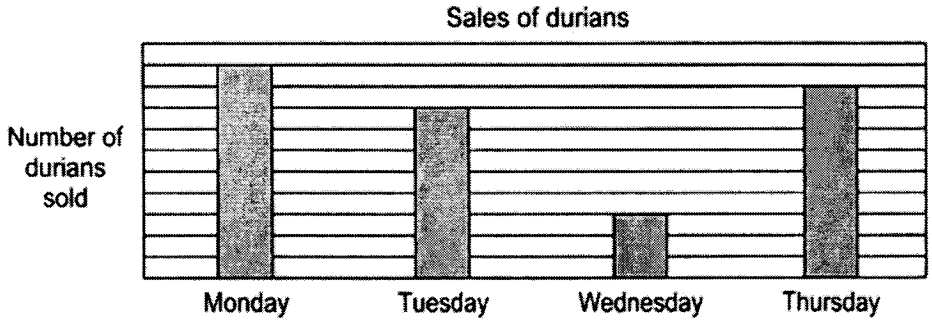
9. The total of two numbers is 72. When a third number is added, the average of the three numbers is 42. Find the third number.

(1) 6
(2) 30
(3) 54
(4) 126

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*Use the information below to answer Questions **10** and **11**.*

The bar graph below shows the sales of durians from Monday to Thursday.
The number of durians sold is not shown on the scale.



10. What is the ratio of the number of durians sold on Monday to the number of durians sold on Tuesday?

(1) 1 : 3

(2) 3 : 8

(3) 5 : 4

(4) 10 : 9

11. What fraction of the total number of durians was sold on Thursday?

(1) $\frac{1}{3}$

(2) $\frac{1}{10}$

(3) $\frac{3}{10}$

(4) $\frac{4}{15}$

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12. Sophia went to the market with \$66y. She bought some beef at \$27 per kilogram. After buying the beef, she had \$8y left. How many kilograms of beef did Sophia buy?

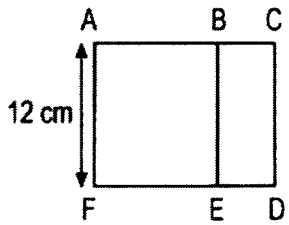
(1) $(\frac{8y}{27})$ kg

(2) $(\frac{58y}{27})$ kg

(3) $(\frac{66y}{27})$ kg

(4) $(\frac{74y}{27})$ kg

13. $ACDF$ is a rectangle. $AF = 12$ cm and $AB = CD$.
The ratio of the length of AB to the length of AC is 2 : 3. Find the area of $ACDF$.



(1) 72 cm^2

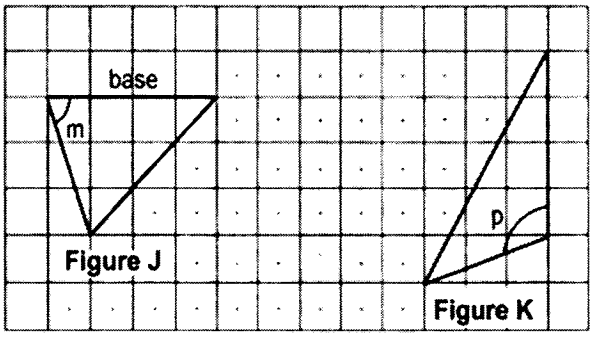
(2) 144 cm^2

(3) 216 cm^2

(4) 360 cm^2

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14. Two figures, J and K, are shown in the square grid below.



Which of the following statement(s) is/are true?

A. $\angle m + \angle p = 180°$

B. Figure J has the same area as Figure K

C. Figure J has the same perimeter as Figure K.

(1) B only

(2) C only

(3) A and B only

(4) A, B and C

15. The members of a chess club are grouped equally into Team X and Team Y. The ratio of the number of boys to girls in Team X is 1 : 3. The ratio of the number of boys to girls in Team Y is 2 : 3. What could be the total number of boys in both teams?

(1) 13

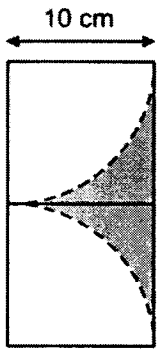
(2) 20

(3) 27

(4) 40

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16. Peter placed 2 identical square pieces of paper one above the other, as shown in the figure below. Each square has sides of 10 cm. He then cut out 2 identical quarter circles from the papers. The shaded parts show the area of the papers that was left.
Find the total area of the shaded parts. (Take $\pi = 3.14$)



(1) 21.5 cm^2

(2) 43.0 cm^2

(3) 78.5 cm^2

(4) 157.0 cm^2

17. Siti had 40 more one-dollar coins than five-dollar notes at first. She exchanged $10 worth of one-dollar coins for five-dollar notes. How many more one-dollar coins than five-dollar notes did Siti have in the end?

(1) 20

(2) 28

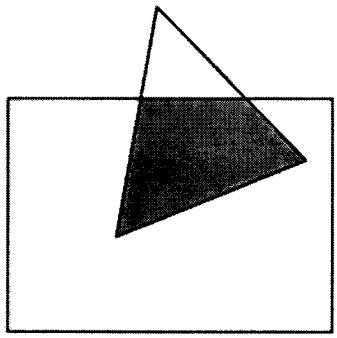
(3) 30

(4) 38

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5

18. The figure below is made up of a rectangle and a triangle. 20% of the rectangle is shaded and 75% of the triangle is shaded. What fraction of the figure is unshaded?



(1) $\frac{19}{25}$

(2) $\frac{19}{22}$

(3) $\frac{13}{19}$

(4) $\frac{13}{16}$

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PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

2026 PRELIMINARY EXAMINATION

PRIMARY SIX

MATHEMATICS
PAPER 1
(BOOKLET B)

NAME : _____( )

CLASS : P 6 _____

DATE : 18 August 2026

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

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of calculators is **NOT** allowed.
6. Do not use correction fluid/ tape.
7. Do not use highlighters on any part of your answers.
8. This booklet consists of 9 printed pages.

	Marks Obtained	/	Maximum Marks
BOOKLET B		/	24

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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)

19. (a) Write thirty-six thousand and fifteen in numerals.

Ans: (a) _____

(b) Find the value of 254 x 30

Ans: (b) _____

20 (a) Find the value of $\frac{5}{6} \div \frac{4}{9}$

Leave your answer in its simplest form.

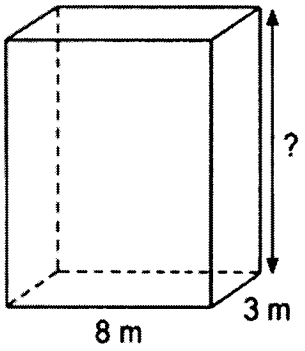
Ans: (a) _____

(b) Express $\frac{5}{9}$ as a decimal. Give your answer correct to 1 decimal place.

Ans: (b) _____

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21. (a) The volume of a cuboid is 144 m^3. Find its height.



Ans: (a) _____ m

(b) A pail is filled up with water at a rate of 100 ml per second.
At this rate, how much water will there be in the pail after a minute?

Ans: (b) _____ ml

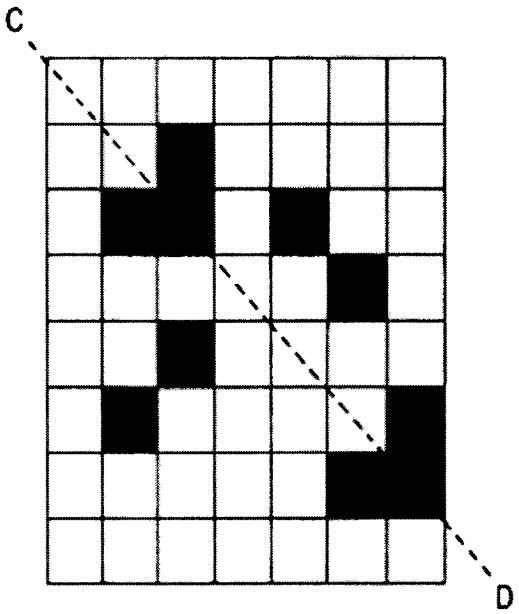
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22. Three girls, Alice, Beatrice and Cecilia, had a total of $240. Alice and Beatrice had $150 altogether. What was the ratio of Cecilia's money to the total amount of money the three girls had? Give your answer in the simplest form.

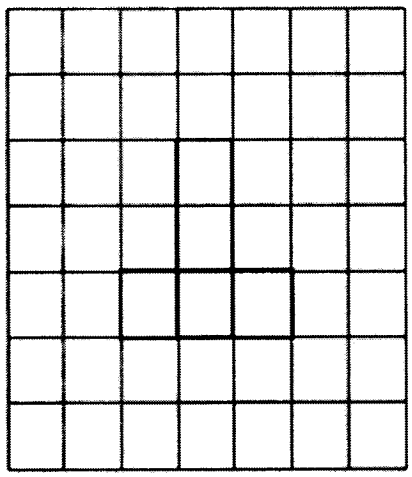
Ans: _____

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23. (a) Shade 2 more squares to form a symmetric figure with CD as the line of symmetry.



(b) The figure below shows an incomplete net of a cube.
Draw another square in the figure to form the net of a cube.

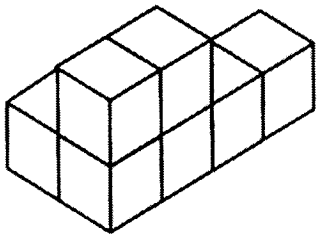


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24. Mr Chan has a roll of wire 61.3 m long.
He cuts off 5 equal pieces. Each piece is 12 cm.
What is the length of the remaining roll of wire? Give your answer in metres.

Ans: _____ m

25. Rachel glued 7 unit cubes together to form the solid shown below.
What is the least number of unit cubes she must add to the solid to form a cube?



Ans: _____

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26. W, X and Y are three containers with the same capacity. At first, W was completely filled with water, X was $\frac{2}{5}$ filled with water and Y was $\frac{1}{5}$ filled with water. Wendy poured some water from W to X and Y. Then, all the containers had the same amount of water. What fraction of the water did Wendy pour from W?

Ans: _____

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27. Jenny had a rectangular piece of paper JKLM. First, she folded it along the line JC as shown in Figure 1. Then, she folded it along the line AB as shown in Figure 2. $\angle AFB = 70°$ and $\angle FBC = 132°$. Find $\angle FAB$.

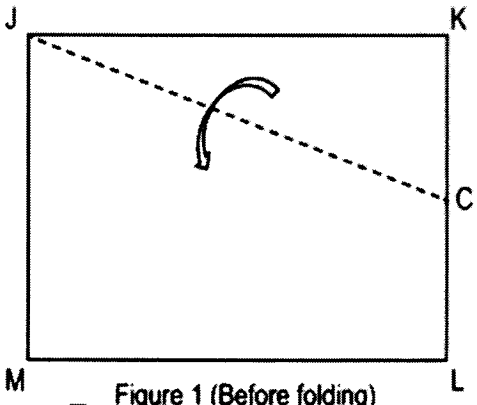


Figure 1 (Before folding)

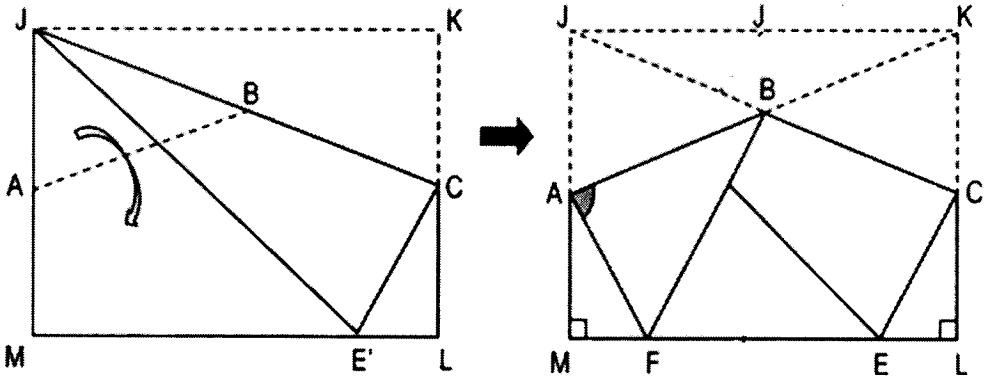


Figure 2 (After the first fold)

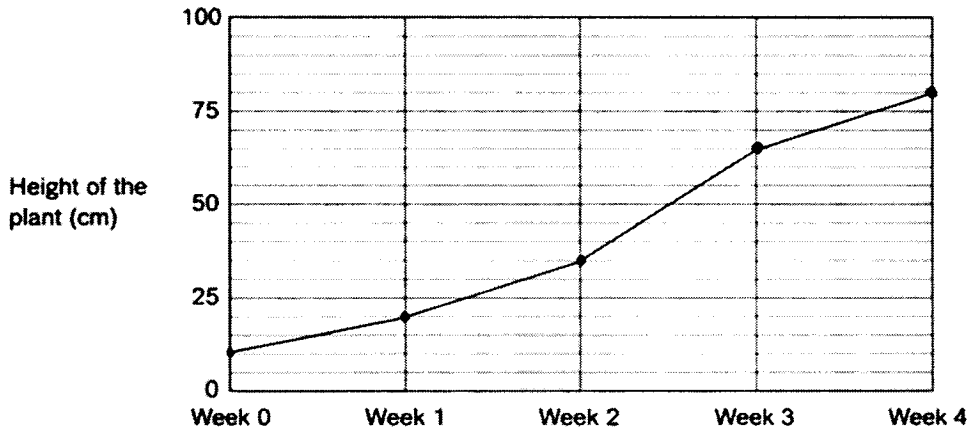
Figure 3 (After the second fold)

Ans: _____ °

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Use the information below to answer Questions 28 and 29.

The line graph below shows the height of a plant at the end of each week.



28. What was the average increase in the height of the plant per week from Week 0 to Week 4?

Ans: _____ cm

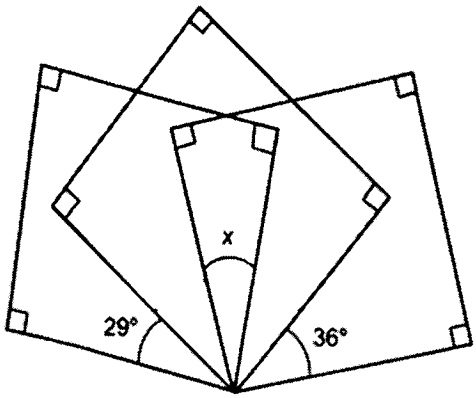
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29. Compared to Week 4, the height of the plant increased by 10% in Week 5. What was its height at the end of Week 5?

Ans: _____ cm

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30., The figure below is made up of 3 overlapping identical squares. Find $\angle x$.



Ans: _____°

End of Booklet B

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PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

2026 PRELIMINARY EXAMINATION

PRIMARY SIX

MATHEMATICS
PAPER 2

NAME : _____( )

CLASS : P 6 _____

DATE : 18 August 2026

Total Time for Paper 2: 1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of an approved calculator is allowed.
6. Do not use correction fluid / tape.
7. Do not use highlighters on any part of your answers.
8. This booklet consists of 14 printed pages.

	Marks Obtained / Maximum Marks
PAPER 2	/ 50

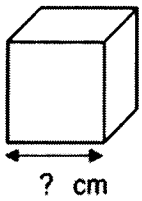
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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. The volume of a cube is 729 cm^3.

   Find the length of one edge of the cube.

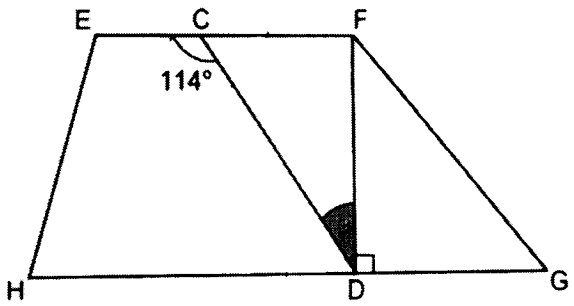


Ans: _____ cm

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2. EFGH is a trapezium. EF is parallel to HG.

   Find ∠CDF.



Ans: _____ °

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3. Mr Tan is 58 years old. He is twice as old as his daughter.

How old is Mr Tan when his daughter is 40 years old?

Ans: _____

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4. Cheryl's beads are $\frac{5}{6}$ of Mandy's beads.

Suzy's beads are $\frac{1}{2}$ of Mandy's beads.

Cheryl has 56 more beads than Suzy.

How many beads do Cheryl and Mandy have altogether?

Ans: _____

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5. In a quiz, John scored $18n$ points.

Peter scored $2n$ more points than John.

Ali scored 12 points less than Peter.

(a) How many points did John, Peter and Ali score altogether?

Give your answer in terms of n.

Ans: (a) _____

(b) John, Peter and Ali scored 510 points altogether. Find the value of n.

Ans: (b) _____

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For questions **6** to **15**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (40 marks)

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6. Lizzy had equal number of red and blue rubber bands.

   She gave away 156 red rubber bands and 240 blue rubber bands.

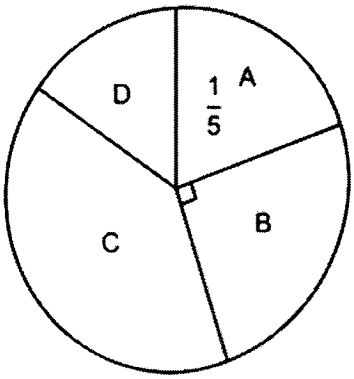
   Then, she had thrice as many red rubber bands as blue rubber bands left.

   How many rubber bands did Lizzy have in the end?

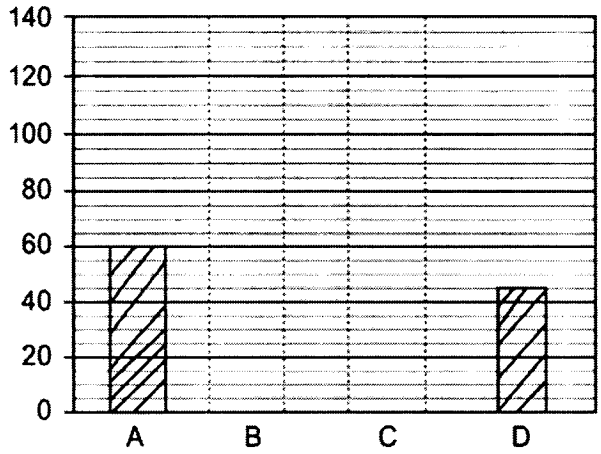
Ans: _____ [3]

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7. The pie chart shows the number of plastic bottles collected by four classes, A, B, C and D, during a recycling project.



The number of plastic bottles collected is also represented by the bar graph below.



[2]

(a) What percentage of the plastic bottles were collected by Class A?

Ans: (a) _____ % [1]

(b) Draw the bars for the number of plastic bottles collected by Classes B and C in the graph above.

[2]

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8. Mr Tan prepared 357 jellies for some children and adults.

There were 4 times as many children as adults. $\frac{3}{4}$ of the children were boys.

Each adult received 5 jellies and each child received 3 jellies.

(a) What fraction of the people attending the party were girls?

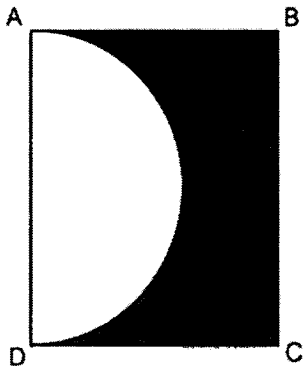
Ans: (a) _____ [1]

b) How many children attended the party?

Ans: (b) _____ [3]

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9. The figure is made up of a rectangle ABCD and a semicircle.
The ratio of the length of AB to the length of BC is 4 : 5.
The perimeter of the shaded part is 48 cm longer than the perimeter of the unshaded part.



(a) What is the length of BC?

Ans: (a) _____ cm [2]

(b) Find the area of the shaded part.
(Take $\pi = 3.14$)

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

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10. Meena baked some tarts. She ate $\frac{1}{6}$ of the tarts and gave 16 of them away. She was left with $\frac{3}{4}$ of the tarts. She packed them into 24 boxes. Some of the boxes contained 10 tarts each while the rest contained 4 tarts each.

(a) How many tarts were packed into the 24 boxes?

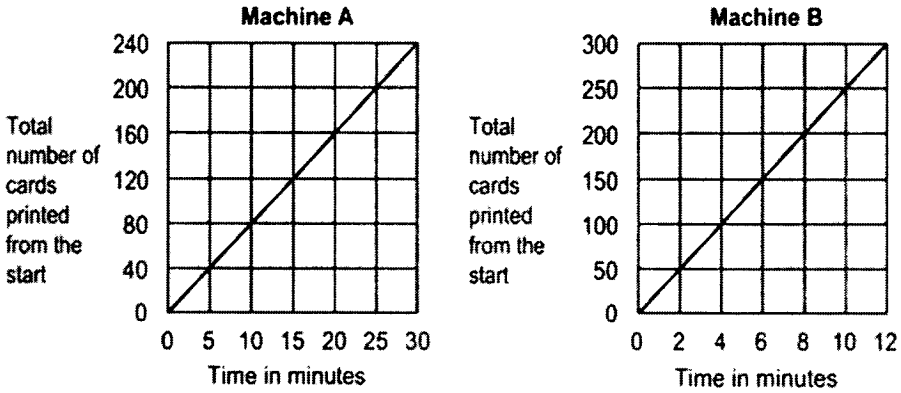
Ans: (a) _____ [2]

(b) How many boxes contained 4 tarts each?

Ans: (b) _____ [2]

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11. Machines A and B were used to print invitation cards for an event.
The graphs show the total number of cards printed by both machines from the start. Both machines started printing at the same time.
Both machines did not change their rate of printing throughout.



(a) How many more cards did Machine B print than Machine A in 1 minute?

Ans: (a) _____ [1]

(b) When Machine B had printed 200 cards, how many cards would Machine A have printed?

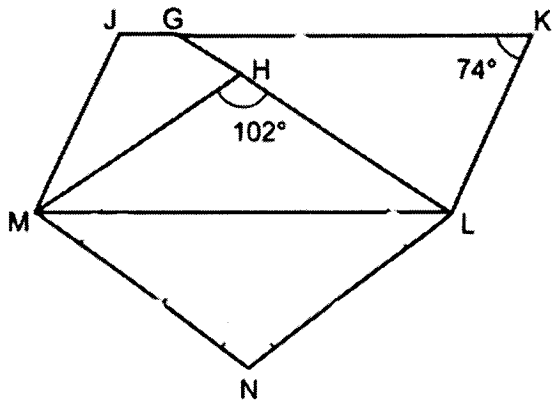
Ans: (b) _____ [1]

(c) At the end of 20 minutes, 40% of all the cards needed had been printed. When all the cards had been printed, how many cards were printed by Machine B?

Ans: (c) _____ [2]

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12. JKLM is a parallelogram and MNLH is a rhombus. GHL is a straight line



(a) Find ∠HLM.

Ans: (a) _____° [1]

(b) Find ∠JGL.

Ans: (b) _____° [2]

(c) Circle the word(s) that describe(s) Triangle GLK.

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

[1]

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13. A fruit seller had apples, mangoes and oranges at his stall. He had 40% less mangoes than apples. The ratio of the number of mangoes to the number of oranges was 2 : 3.

(a) Find the ratio of the number of apples to the number of mangoes to the number of oranges at the stall. Give your answer in the simplest form.

Ans: (a) _____ [2]

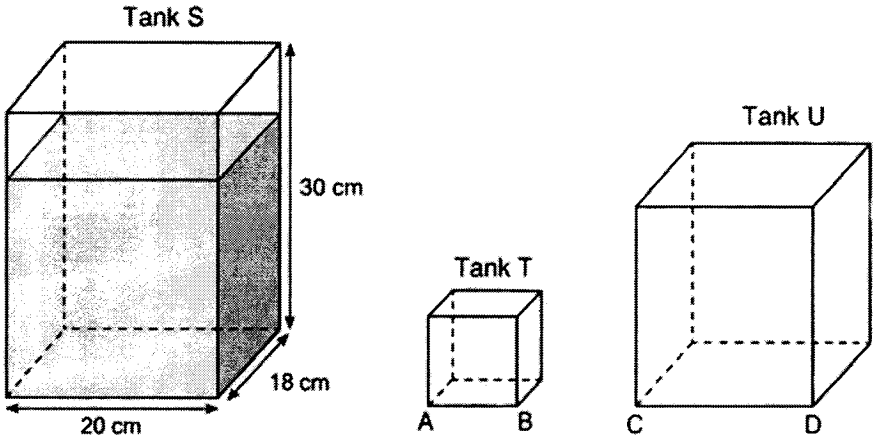
(b) The fruit seller sold some mangoes and the total number of fruits at his stall decreased by 20%. What percentage of the fruits at his stall were mangoes after that?

Ans: (b) _____ % [2]

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14. A rectangular tank, S, and two cubical tanks, T and U, are shown.

The length of CD is twice the length of AB.



At first, $\frac{4}{5}$ of tank S was filled with water and tanks T and U were empty.

Some water was poured from tank S to fill tank T completely.

The remaining water in tank S could only fill half of tank U.

(a) Find the volume of water in tank S.

Ans: (a) _____ cm^3 [1]

(b) What was the length of CD?

Ans: (b) _____ cm [4]

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15. In Figure 1, Shawn stacked 3 identical equilateral triangles one in front of another such that they overlap at the same distance from one another. AB = BC

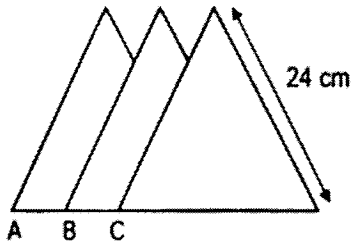


Figure 1

(a) The perimeter of Figure 1 is 114 cm. Find the length of AB.

Ans: (a) _____ cm [2]

(b) Following the same pattern in Figure 1, Shawn continued to stack more such equilateral triangles one in front of another as shown in Figure 2.
The length between the first triangle and the last triangle is 325 cm.

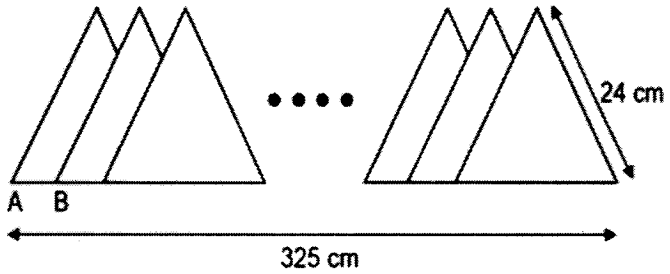


Figure 2

How many triangles are there in Figure 2?

Ans: (b) _____ [3]

End of Paper 2

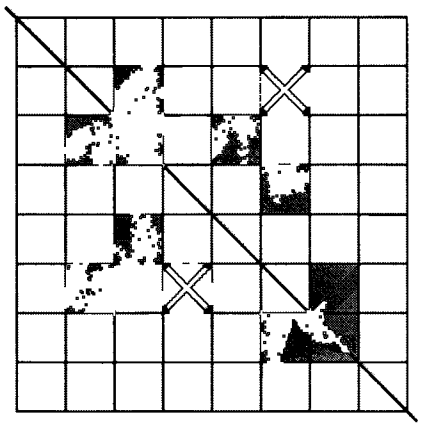
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MARKING SCHEME / ANSWER KEY

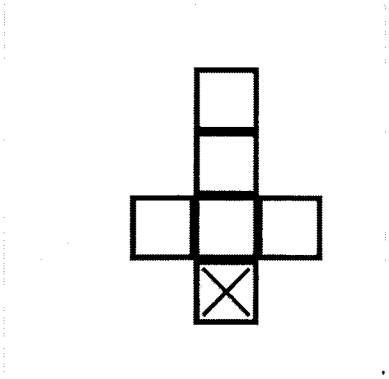
PAPER 1 — BOOKLET A

Question	1	2	3	4	5	6	7	8	9
Answer	4	2	1	3	2	2	4	2	3
Question	10	11	12	13	14	15	16	17	18
Answer	3	3	2	3	3	1	2	2	4

PAPER 1 — BOOKLET B

Q	Suggested working / answer
19	(a) Thirty-six thousand and fifteen = 36,015 **ANS: 36,015** (b) 254 × 30 = 7,620 **ANS: 7,620**
20	(a) 5/6 ÷ 4/9 = 5/6 × 9/4 = 45/24 = 15/8 = 1 7/8 **ANS: 1 7/8** (b) 5/9 = 0.555... ≈ 0.6 (1 d.p.) **ANS: 0.6**
21	(a) Height = 144 ÷ (8 × 3) = 6 m **ANS: 6 m** (b) 1 min = 60 s; 100 × 60 = 6,000 mℓ **ANS: 6,000 mℓ**
22	Cecilia's money = 240 − 150 = $90 Ratio = 90 : 240 = 3 : 8 **ANS: 3 : 8**
23(a)	Reflect every shaded square across diagonal CD. The two added squares are shown with crosses. **ANS: See completed symmetric grid.** 

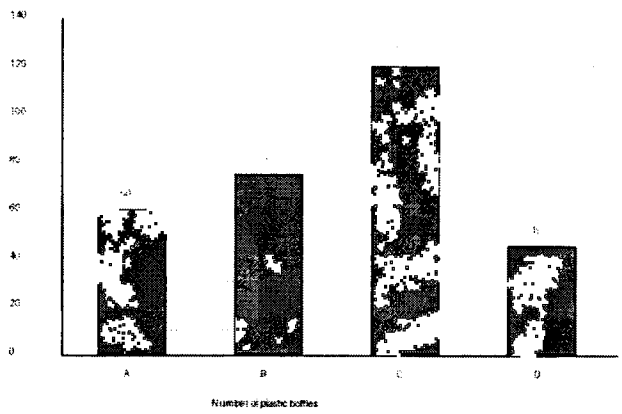
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Q	Suggested working / answer
23(b)	One valid completion is to add the square directly below the middle square of the horizontal row. **ANS: See completed cube net.** 
24	5 × 12 cm = 60 cm = 0.6 m 61.3 − 0.6 = 60.7 m **ANS: 60.7 m**
25	The solid spans 4 unit-cube lengths, so the smallest cube is 4 × 4 × 4. 4 × 4 × 4 = 64; 64 − 7 = 57 **ANS: 57 unit cubes**
26	Total water = 1 + 2/5 + 1/5 = 8/5 container Equal amount in each container = 8/5 ÷ 3 = 8/15 Fraction poured from W = 1 − 8/15 = 7/15 **ANS: 7/15**
27	J, B and C lie on a straight line, so ∠JBF = 180° − 132° = 48°. AB is the fold line, so ∠ABF = 48° ÷ 2 = 24°; ∠FAB = 180° − 70° − 24° = 86° **ANS: 86°**
28	Average increase = (80 − 10) ÷ 4 = 17.5 cm per week **ANS: 17.5 cm**
29	Week 5 height = 80 × 110% = 88 cm **ANS: 88 cm**
30	Each square contributes a 90° corner. The two adjacent gaps are 36° and 29°. x = 90° − 36° − 29° = 25° **ANS: 25°**

PAPER 2

Q	Suggested working / answer
1	9 × 9 × 9 = 729 **ANS: 9 cm**
2	∠DCF = 180° − 114° = 66°. Since DF ⊥ CF, ∠CDF = 180° − 90° − 66° = 24°. **ANS: 24°**

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Q	Suggested working / answer
3	Daughter's present age = 58 ÷ 2 = 29 years. Age difference = 58 − 29 = 29 years. When daughter is 40: 40 + 29 = 69. **ANS: 69 years old**
Q	**Suggested working / answer**
4	5/6 − 1/2 = 1/3 of Mandy's beads = 56 Mandy = 56 × 3 = 168; Cheryl = 5/6 × 168 = 140 140 + 168 = 308 **ANS: 308 beads**
5	(a) John = 18n; Peter = 20n; Ali = 20n − 12 Total = 18n + 20n + 20n − 12 = 58n − 12 **ANS: 58n − 12** (b) 58n − 12 = 510; 58n = 522; n = 9 **ANS: 9**
6	Let the initial number of each colour be x. x − 156 = 3(x − 240) x − 156 = 3x − 720; 2x = 564; x = 282 Red left = 126; blue left = 42; total = 168 **ANS: 168 rubber bands**
7	(a) Class A = 1/5 = 20% **ANS: 20%** (b) A collected 60, so total = 60 ÷ 1/5 = 300. B is a right angle sector: 1/4 × 300 = 75. C = 300 − 60 − 75 − 45 = 120. **ANS: Draw bars at B = 75 and C = 120.** 
8	(a) Let adults = 1 unit; children = 4 units. Girls = 1/4 of children = 1 unit. Girls ÷ all people = 1 ÷ 5 = 1/5 **ANS: 1/5** (b) Let adults = a. Total jellies: 5a + 3(4a) = 17a. 17a = 357; a = 21; children = 4 × 21 = 84. **ANS: 84 children**
9	(a) Let AB : BC = 4u : 5u. The semicircular arc is common to both perimeters. Difference = AB + BC + CD − AD = 2AB = 48. AB = 24 cm, so u = 6 and BC = 30 cm. **ANS: 30 cm** (b) Rectangle area = 24 × 30 = 720 cm². Semicircle area = 1/2 × 3.14 × 15² = 353.25 cm². Shaded area = 720 − 353.25 = 366.75 cm². **ANS: 366.75 cm²**

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Q	Suggested working / answer
10	(a) 1 − 1/6 − 3/4 = 1/12 of all tarts, corresponding to 16 tarts. Total baked = 16 × 12 = 192; packed = 3/4 × 192 = 144. **ANS: 144 tarts** (b) If all 24 boxes held 4 tarts: 24 × 4 = 96. Extra = 144 − 96 = 48; each 10-tart box adds 6, so 48 ÷ 6 = 8 such boxes. Boxes with 4 tarts = 24 − 8 = 16. **ANS: 16 boxes**
11	A: 240 ÷ 30 = 8 cards/min; B: 300 ÷ 12 = 25 cards/min. (a) 25 − 8 = 17 **ANS: 17 cards** (b) B takes 200 ÷ 25 = 8 min; A prints 8 × 8 = 64. **ANS: 64 cards** (c) In 20 min: A prints 160 and B prints 500; total = 660. 660 is 40%, so all cards = 660 ÷ 0.4 = 1,650. B's share = 25/(8+25) × 1,650 = 1,250. **ANS: 1,250 cards**
12	(a) In rhombus MNLH, adjacent angles are supplementary. Hence ∠HLN = 180° − 102° = 78°. Diagonal ML bisects ∠HLN. ∠HLM = 78° ÷ 2 = 39°. **ANS: 39°** (b) In parallelogram JKLM, ∠KLM = 180° − 74° = 106°. ∠GLK = 106° − 39° = 67°. In △GLK, ∠KGL = 180° − 74° − 67° = 39°. Since J, G and K are collinear, ∠JGL = 180° − 39° = 141°. **ANS: 141°** (c) △GLK has angles 39°, 67° and 74°; no two are equal. **ANS: is not an isosceles triangle**
13	(a) Mangoes are 60% of apples. Let apples = 10 units and mangoes = 6 units. Mangoes : oranges = 2 : 3, so oranges = 9 units. **ANS: 10 : 6 : 9** (b) Initial total = 25 units. A 20% decrease = 5 units, all from mangoes. Mangoes left = 6 − 5 = 1 unit; total left = 20 units. 1/20 × 100% = 5% **ANS: 5%**
14	(a) Tank S volume = 20 × 18 × 30 = 10,800 cm³. Water = 4/5 × 10,800 = 8,640 cm³. **ANS: 8,640 cm³** (b) Let AB = x cm, so CD = 2x cm. $x^3 + 1/2(2x)^3 = 8{,}640$; $5x^3 = 8{,}640$; $x^3 = 1{,}728$; x = 12. CD = 2 × 12 = 24 cm. **ANS: 24 cm**
15	(a) Let AB = d cm. For 3 triangles, perimeter = 72 + 6d. 72 + 6d = 114; 6d = 42; d = 7. **ANS: 7 cm** (b) Overall length for n triangles = 24 + (n − 1)(7). 24 + 7(n − 1) = 325; 7(n − 1) = 301; n − 1 = 43; n = 44. **ANS: 44 triangles**

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