AI TONG SCHOOL

2025

END-OF-YEAR EXAMINATION
PRIMARY 5

MATHEMATICS
PAPER 1

DURATION : 1 h 10 min

DATE : 30 OCTOBER 2025

INSTRUCTIONS

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 5 _____ Marks:

Parent's Signature : _____ Date : _____	Paper 1 / 50

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Paper 1 Booklet A

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)

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1 What is the value of the digit 4 in 40 781?

(1) 40
(2) 400
(3) 4000
(4) 40 000

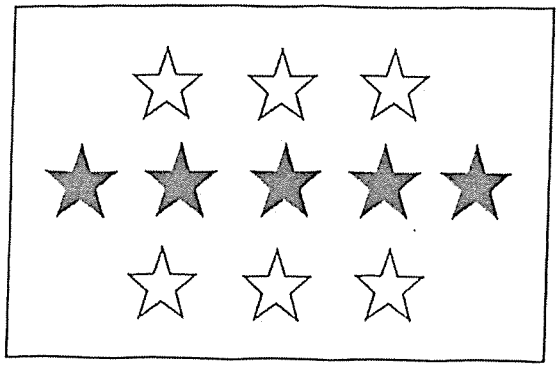
2 Which number is the smallest?

(1) 0.204
(2) 0.402
(3) 0.24
(4) 0.42

3 Express $1\frac{1}{25}$ as a decimal.

(1) 1.1
(2) 1.4
(3) 1.04
(4) 1.125

4 What fraction of the stars are shaded?



(1) $\frac{5}{6}$

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

(3) $\frac{6}{11}$

(4) $\frac{5}{11}$

5 Kalsa was in school from 07 25 to 13 10. How long was she in school?

(1) 5 h 35 min

(2) 5 h 45 min

(3) 6 h 25 min

(4) 6 h 45 min

6 What is the missing number in the box?

$$7\frac{3}{5} = \frac{\boxed{?}}{5}$$

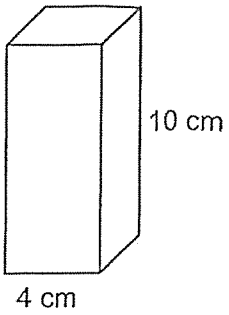
(1) 21

(2) 26

(3) 35

(4) 38

7 A cuboid of height 10 cm has a square base of side 4 cm.
What is its volume?



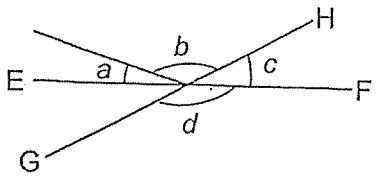
(1) 240 cm^3

(2) 160 cm^3

(3) 80 cm^3

(4) 40 cm^3

8 In the figure, EF and GH are straight lines. Which of the following is true?



(1) $\angle a = \angle c$

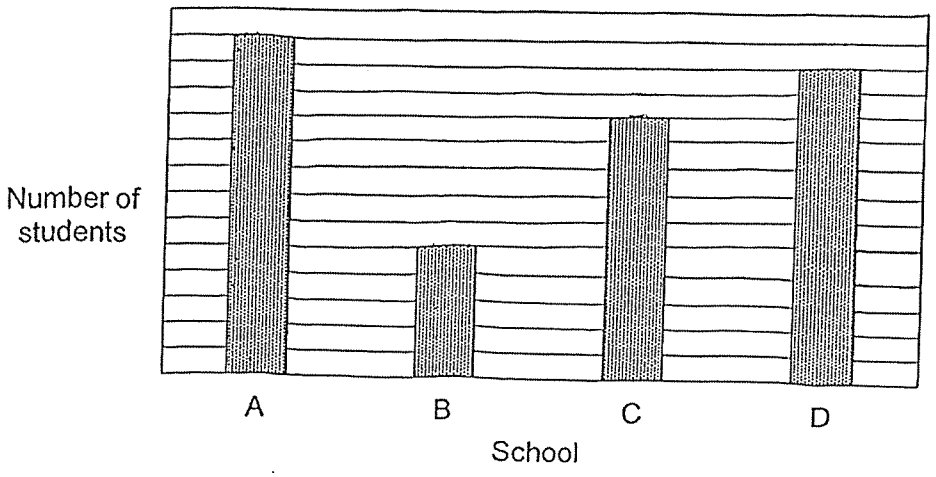
(2) $\angle b = \angle d$

(3) $\angle a + \angle b = \angle d$

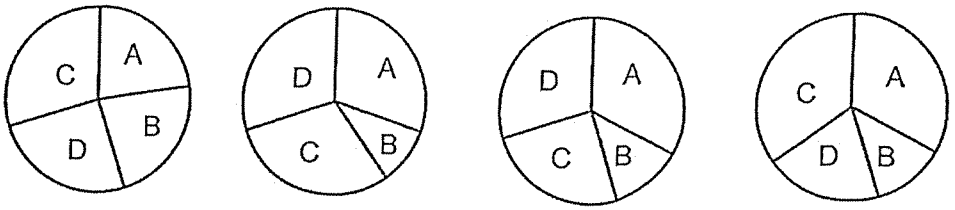
(4) $\angle b + \angle c = 180°$

Use the information below to answer Questions 9 and 10.

The bar graph shows the number of students from schools A, B, C and D who participated in an art competition. The scale of the bar graph is not shown.



9 Which of the following pie charts represents the information in the bar graph?



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

10 What fraction of the students were from School D?

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

(2) $\frac{13}{40}$

(3) $\frac{3}{8}$

(4) $\frac{1}{4}$

11 What is the value of $48 + 72 \div (24 - 12) \times 3$?

(1) 30
(2) 50
(3) 66
(4) 117

12 Joshua had $280. He spent $70 on some books.
What percentage of his money did Joshua spend on the books?

(1) 25%
(2) 50%
(3) 70%
(4) 75%

13 Arrange these distances from the shortest to the longest.

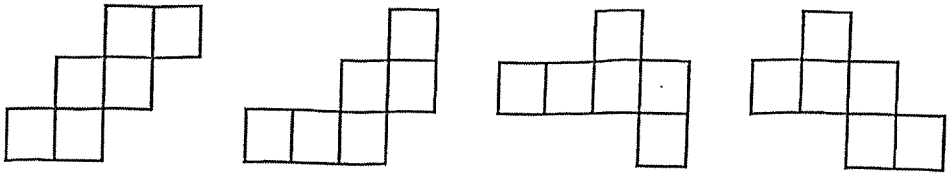
6 km 305 m	$6\frac{3}{5}$ km	6.35 km

	Shortest		Longest
(1)	6 km 305 m	6.35 km	$6\frac{3}{5}$ km
(2)	6 km 305 m	$6\frac{3}{5}$ km	6.35 km
(3)	6.35 km	6 km 305 m	$6\frac{3}{5}$ km
(4)	$6\frac{3}{5}$ km	6.35 km	6 km 305 m

14 A machine takes 5 minutes to produce 3 toy cars. At the same rate, how long will it take to produce 45 toy cars?

(1) 9 minutes
(2) 15 minutes
(3) 27 minutes
(4) 75 minutes

15 Which of the following is **not** a net of a cube?

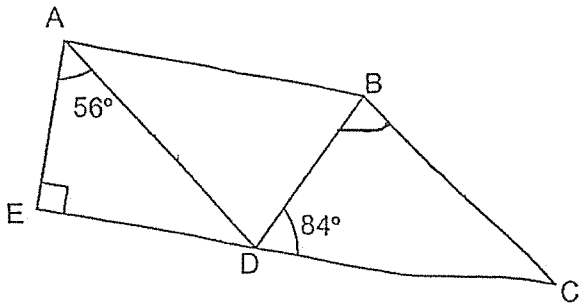


(1) (2) (3) (4)

16 A box contained red, blue and yellow marbles. There were 240 red marbles. $\frac{2}{5}$ of the remaining marbles were blue. $\frac{1}{5}$ of all the marbles in the box were yellow. How many marbles were there in the box?

(1) 300
(2) 360
(3) 384
(4) 600

17 In the figure, ABCE is a trapezium. AB // EC and AD // BC. ∠EAD = 56°. ∠CDB = 84°. Find ∠DBC.



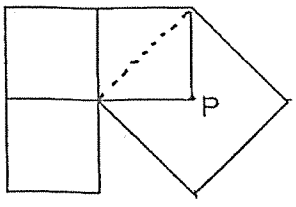
(1) 56°

(2) 62°

(3) 96°

(4) 146°

18 The figure below is made up of 3 identical small squares and 1 big square. Two of the squares overlap as shown. The perimeter of each small square is 64 cm. P is the center of the big square. What is the area of the figure?



(1) 288 cm^2

(2) 896 cm^2

(3) 1152 cm^2

(4) 1280 cm^2

Booklet B

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 three hundred and seven thousand in numerals.

Ans: (a) _____

(b) What is the first common multiple of 4 and 6?

Ans: (b) _____

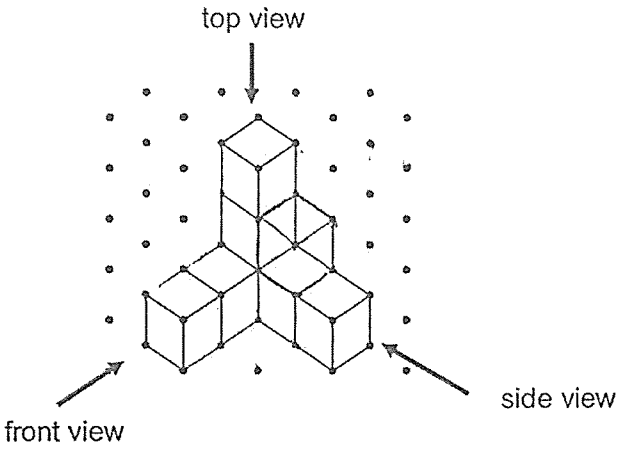
20 (a) Find the value of $684 \div 800$. Express your answer as a decimal.

Ans: (a) _____

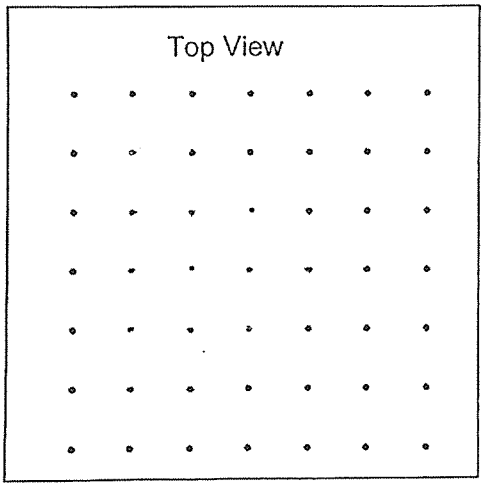
(b) Express 1.18 as a mixed number in its simplest form.

Ans: (b) _____

21 Eight 1-cm cubes were glued together to form the solid shown.



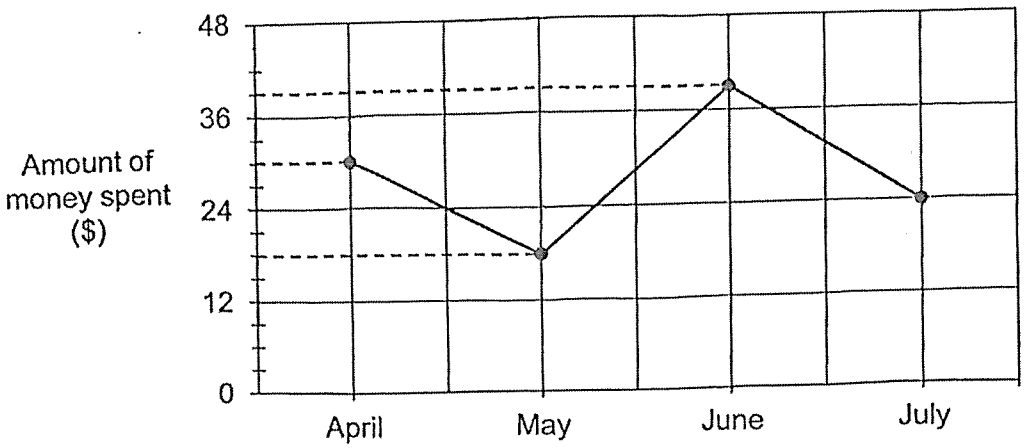
(a) Use a pencil and ruler to draw the top view of the solid in the grid provided.



(b) What is the least number of 1-cm cubes that must be added to the solid to form a cuboid?

Ans: (b) _____

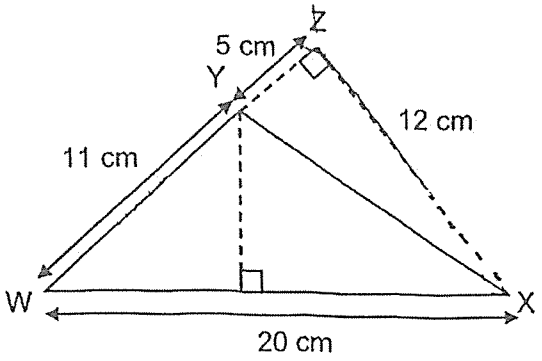
22 The line graph shows the amount of pocket money Junhao spent from April to July. He received the same amount of pocket money every month.



Junhao saved a total of $42 in April and May.
How much did he save altogether in June and July?

Ans: $_____

23 Find the area of Triangle WXY.



Ans:_____ cm^2

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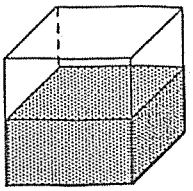
24 A cubical tank of side 30 cm is $\frac{2}{3}$ filled with water. How much water is in the tank? Give your answer in ℓ.



Ans:_____

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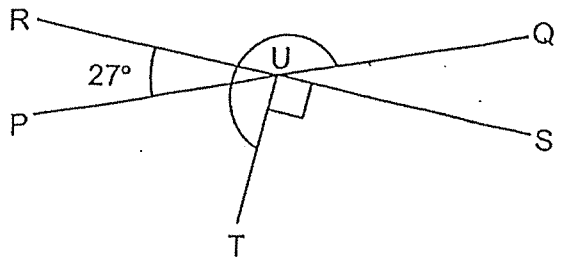
25 PQ and RS are straight lines. Find ∠QUT as marked.



Ans: _____°

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26 There are some red and blue pens in Box A and Box B. $\frac{2}{5}$ of the pens are in Box A and the rest are in Box B. $\frac{1}{4}$ of the pens in Box A are red. Both boxes have the same number of blue pens.

Each of the statements below is either true, false or not possible to tell from the statements given. Put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
The total number of pens in the two boxes is a multiple of 5.			
There are fewer red pens in Box B than in Box A.			
$\frac{1}{2}$ of the pens in Box B are red.			

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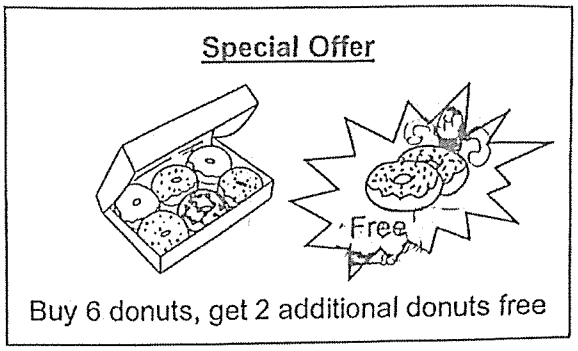
27 A bakery was having a special offer. Nora needed 32 donuts for a party. With the special offer, she could save $11.60. What was the price of 1 donut **without** the special offer?



Ans: $_____

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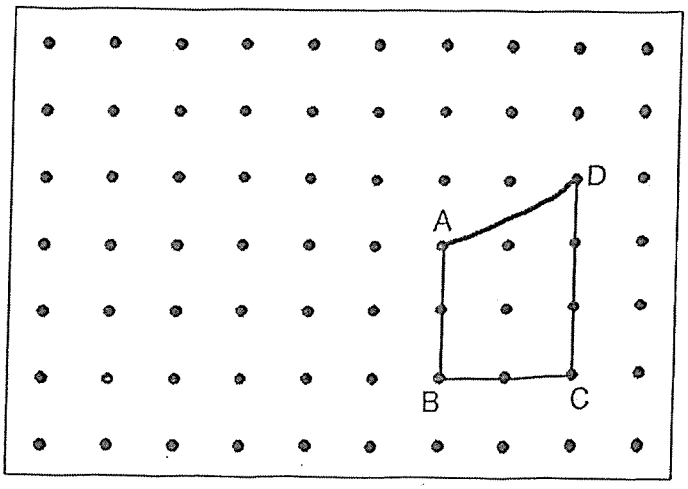
28 There are 200 students in Sports Club and 100 students in Robotics Club.
60% of the students in Sports Club are boys.
25% of the students in Robotics Club are girls.
What percentage of the total number of students in both clubs are girls?

Ans: _____%

---

29 A trapezium ABCD is drawn in the grid below. By joining the dots in the grid and **not** overlapping with any other shapes in the grid,

(a) draw a rhombus ADEF.
(b) draw a triangle ABG with the same area as trapezium ABCD.



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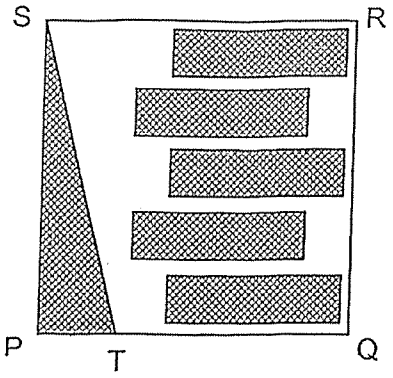
30 PQRS is a square piece of paper. Kelly shaded triangle PTS and five rectangles on the paper. PT is $\frac{1}{4}$ the length of PQ. $\frac{1}{2}$ of RSTQ is shaded with the rectangles. What fraction of the paper is shaded?



Ans: _____

End of Paper 1

AI TONG SCHOOL

2025

END-OF-YEAR EXAMINATION
PRIMARY 5

MATHEMATICS
PAPER 2

DURATION : 1 h 20 min

DATE : 30 OCTOBER 2025

INSTRUCTIONS

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 allowed.

Name: _____( )

Class: Primary 5 _____

Parent's Signature : _____	
Date : _____	

Marks :

Paper 1	50
Paper 2	50
Total	100

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Paper 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question 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 Alyssa had 3.02 kg of flour at first. She used 450 g of it.
How many kilograms of flour was left?

Ans: _____kg

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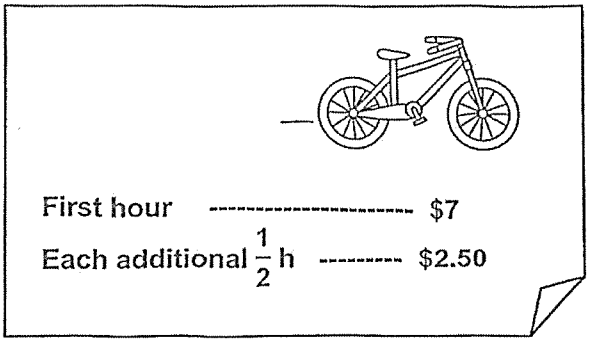
2 The poster below shows the rental rate at a bicycle rental shop.

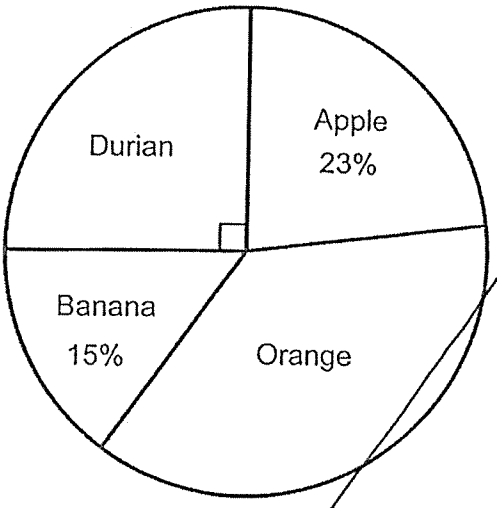


Mike rented a bicycle for $3\frac{1}{2}$ h. How much did he pay for his bicycle rental?

Ans: $ _____

---

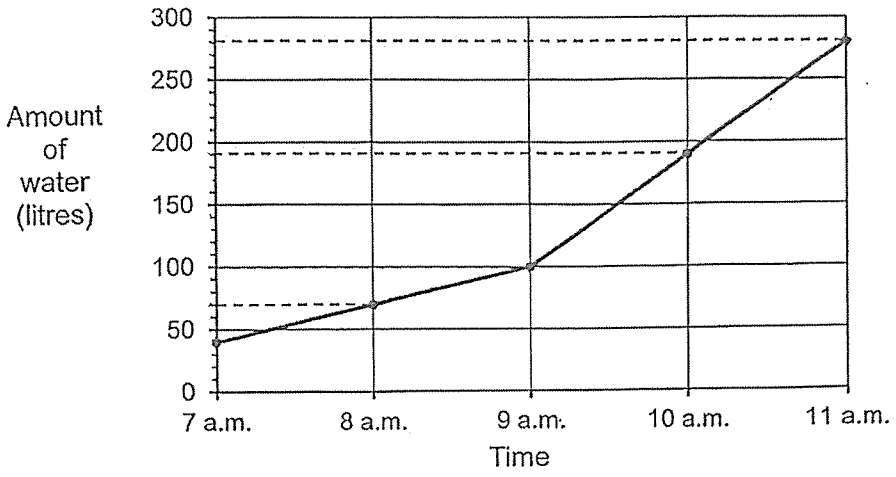
3 480 students participated in a survey to choose their favourite fruit. Their choices were represented in the pie chart shown below.



What was the total number of students who chose apple and orange in the survey?

Ans: _____ [2]

4 A tank contained some water at first. At 7 a.m., Tap A was turned on to fill the tank. At 9 a.m., Tap B was also turned on to fill the tank. The graph below shows the volume of water in the tank over 4 hours.

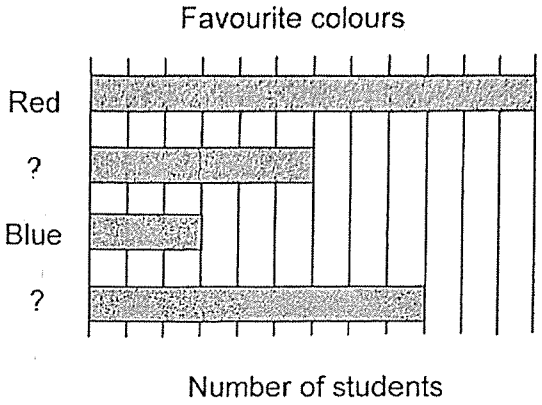


What was the amount of water filled by Tap B between 9 a.m. and 11 a.m.?

Ans: _____ ℓ

5 Some students chose their favourite colours in a survey. The table shows the responses. Part of the table was covered by an ink blot. The responses were also represented by a bar graph but some of the names of the colours were not indicated.

Colour	Percentage of students
Purple	20%
Red	40%
Yellow	
Blue	



What percentage of students chose yellow as their favourite colour?

Ans: _____%

For questions 6 to 17, show your working clearly in the space provided for each question and write the answers in the spaces provided.
The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (40 marks)

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6 Figure 1 shows Triangle ABC. BA = BC.
Figure 2 shows the same triangle after it is folded along line DE.

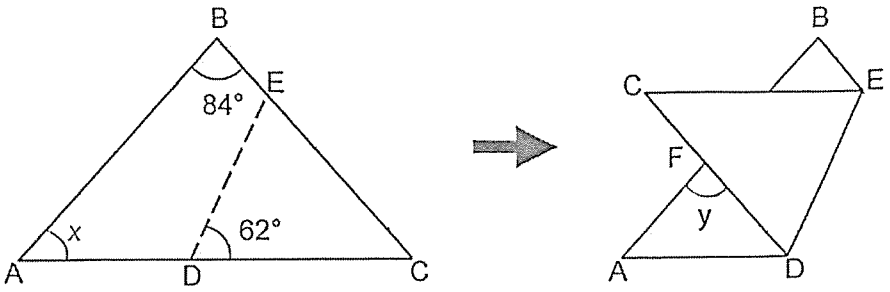


Figure 1
Before Folding

Figure 2
After Folding

(a) Find $\angle x$.

Ans : (a) _____ ° [1]

(b) Find $\angle y$.

Ans : (b) _____ ° [2]

---

7 Dexter spent $\frac{5}{6}$ of his money and Brad spent $\frac{3}{5}$ of his money. In the end, Dexter and Brad had the same amount of money left. Dexter had $210 more than Brad at first. How much money did Brad have at first?

Ans: $ _____ [3]

8 At a shop, jackets and shirts were sold at the prices shown.

Jacket

Usual price: $99

Shirt

Usual price: $52

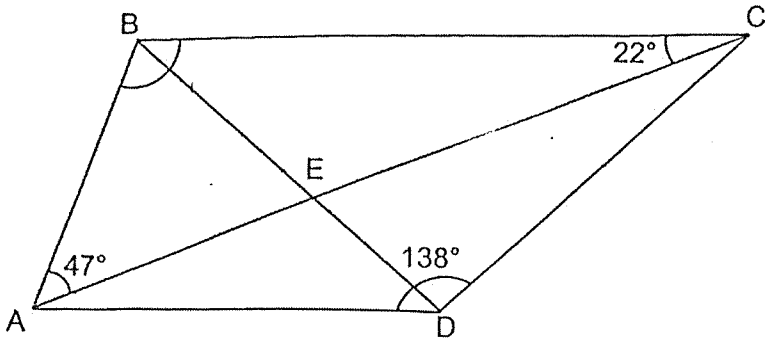
(a) Jasmine bought ono jacket at the usual price. The GST is 9%. How much is tho GST?

Ans : (a) $ _____ [1]

(b) Asher bought three shirts at a discount of 15%. How much was the total discount for the three shirts he bought?

Ans : (b) $ _____ [2]

9 In the figure, DA = DB = DC. ∠ADC = 138°, ∠BCE = 22° and ∠BAC = 47°. BED and AEC are straight lines.



(a) Find ∠DCA.

Ans : (a) _____ ° [1]

(b) Find ∠ABC.

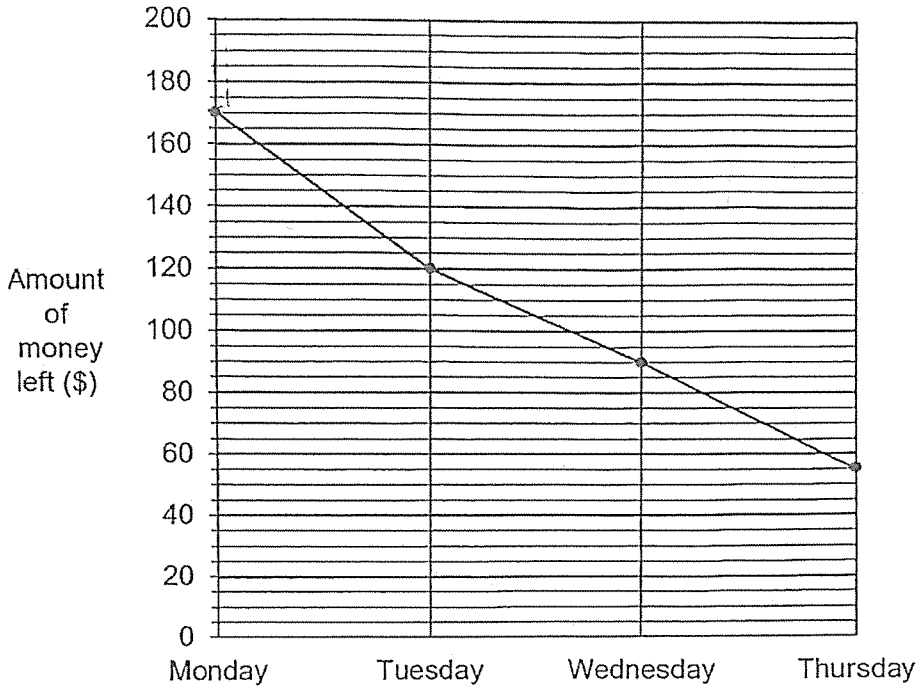
Ans : (b) _____ ° [2]

(c) Circle the words that describe ABCD correctly in the following statement.

ABCD **(is / is not)** a trapezium because the sum of ∠BCD and ∠ADC **(is / is not)** 180°.

[1]

10 Owen was given $200 pocket money to spend over 5 days. The line graph below shows the amount of money Owen had left at the end of each day from Monday to Thursday.



(a) How much money did Owen have left at the end of Monday?

Ans : (a) $ _____ [1]

(b) What fraction of his pocket money did Owen spend on Tuesday?

Ans : (b) _____ [1]

(c) On Friday, Owen spent 40% of what he had left on Thursday. How much had he left at the end of Friday?

Ans : (c) $ _____ [2]

11 A basket contained some marbles. Doris gave $\frac{1}{4}$ of them and another 15 marbles to her brother. She then took out $\frac{4}{7}$ of the remaining marbles for a game. There were 72 marbles left in the basket. How many marbles were there in the basket at first?

Ans : _____ [4]

12 There were 162 more white buttons than red buttons at first. Mr Quek used 220 white buttons.

(a) How many more red buttons were there than white buttons left?

Ans : (a) _____ [1]

(b) Mrs Quek then bought another 220 red buttons. After this, there were 3 times as many red buttons as white buttons. What was the total number of buttons in the end?

Ans : (b) _____ [3]

13 A stack of 10 identical pots were arranged as shown in Figure 1.
Figure 2 shows the remaining pots after 3 pots were removed.

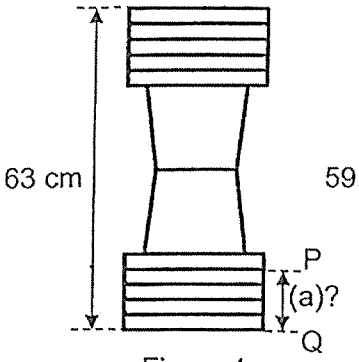


Figure 1

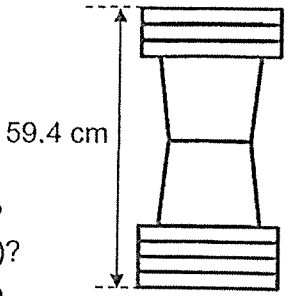
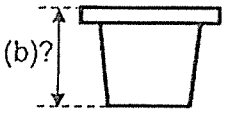


Figure 2



Pot

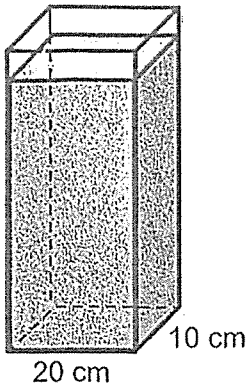
(a) What is height of PQ?

Ans : (a) _____ cm [2]

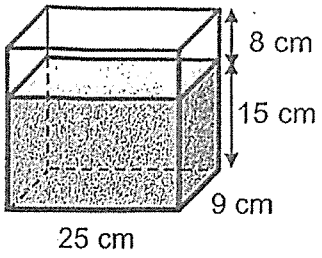
(b) What is the height of one pot?

Ans : (b) _____ cm [3]

14 Two rectangular tanks, P and Q, had some water at first.



Tank P



Tank Q

Hatti poured $\frac{1}{4}$ of the water from Tank P into Tank Q to fill it to the brim, without overflowing.

(a) How much water was there left in Tank P?

Ans : (a) _____ mℓ [2]

Hatti then poured some water back from Tank Q into Tank P to fill it to the brim, without overflowing. There was 2775 cm^3 of water left in Tank Q.

(b) What is the capacity of Tank P? Give your answer in litres.

Ans: (b)_____ ℓ [3]

15 Esther and Jessie went shopping together with a total sum of $261. Esther spent twice as much as Jessie. The amount Jessie spent was $9 more than what she had left. She had twice as much money left as Esther.

(a) How much did Jessie spend?

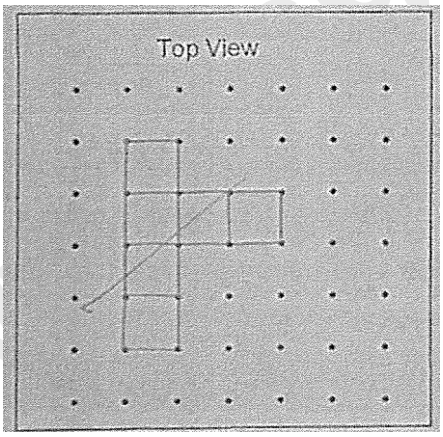
Ans : (a) $_____ [3]

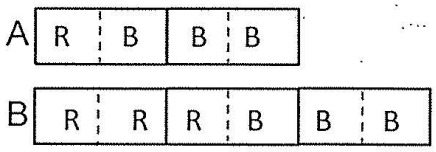
(b) How much money did Esther have at first?

Ans : (b) $_____ [2]

SCHOOL : AI TONG PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : 2025 END OF YEAR EXAMINATION

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

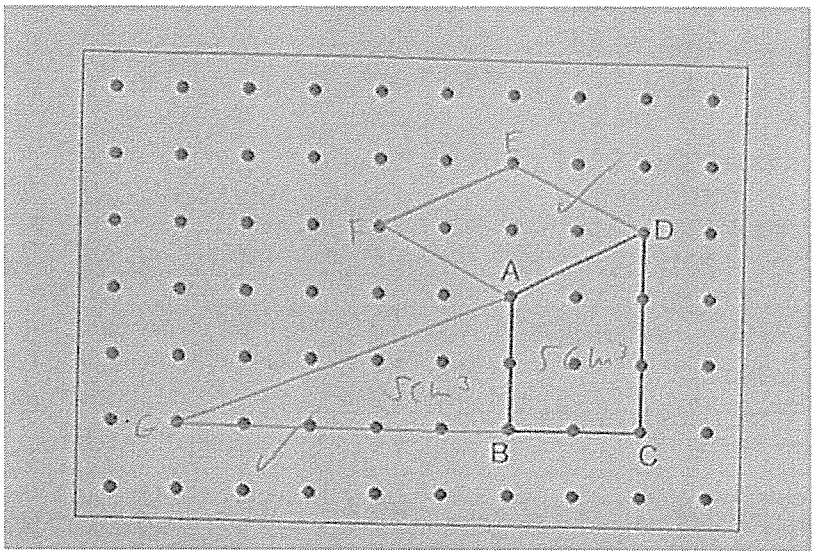
Q19(a)	307 000	307 000
Q19(b)	Multiple of 4: 4, 8, 12 Multiple of 6: 6, 12	12
Q20(a)	$684 \div 800 = 684 \div 100 \div 8$ $= 6.84 \div 8$ $= 0.855$	0.855
Q20(b)	$1.18 = 1\ \frac{18}{100}$ $= 1\ \frac{9}{50}$	$1\ \frac{9}{50}$
Q21(a)		

Q21(b)	$3 \times 4 \times 3 = 36$ $36 - 8 = 28$	28
Q22	$30 + 18 = 48$ $48 + 42 = 90$ $90 - 39 - 24 = 27$	$27
Q23	$\frac{1}{2} \times B \times H = \frac{1}{2} \times 11 \times 12$ $= 66$	66 cm^2
Q24	Vol of cube $= 30 \times 30 \times 30 = 27\,000$ Vol of water $= \frac{2}{3} \times 27\,000 = 18\,000$ $1\ell = 1000$ cm^3 $18\,000$ $cm^3 = 18\,000 \div 1000 = 18\ell$	18 ℓ
Q25	$\angle QUS = 27°$(vert. opp. $\angle$) $\angle U = 360° - 90° - 27°$ $= 243°$	243°
Q26	Not possible to tell False True **Explanation** 	
Q27	Buy 6, free 2 $6 + 2 = 8$ $32 \div 8 = 4$ $2 \times 4 = 8$ 8 donuts = $11.60 1 donut = $11.60 ÷ 8 = $1.45	$1.45

= $1.45 Ans : $1.45÷

Q28) 100% - 60% = 40% (Girls in Sports Club)
100% = 200
1% = 200 ÷ 100
= 2
40% = 40 × 2
= 80 (Girls in Sports Club)
100% = 100
1% = 100 ÷ 100
= 1
25% = 25 × 1
= 25 (Girls in Robotics Club)
Total students = 200 + 100
= 300
Total girls = 80 + 25
= 105
$\frac{105}{300} \times 100\% = 35\%$ Ans : 35%

Q29a&b)



Q30) SRQT = 7 parts
7 × 2 = 14
14 ÷ 2 = 7
7 + 2 = 9
4 × 4 = 16
Hence : $\frac{9}{16}$ Ans : $\frac{9}{16}$

Paper 2

Q1) 450g = 0.45g
3.02 – 0.45 = 2.57
Ans: 2.57 Kg

Q2) First hour = $7
$3\frac{1}{2} - 1 = 2\frac{1}{2}$
$2\frac{1}{2} = five\ \frac{1}{2}\ hours$

$2.50 × 5 = $12.50
$12.50 + $7 = $19.50
Ans: $19.50

Q3) Question incorrect, there is remainder in the total number of students

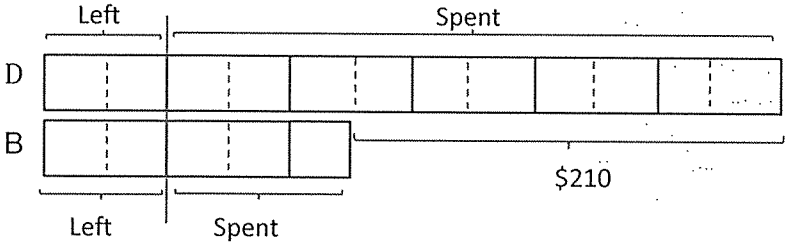
Q4) Tap A = 30 ℓ (per hour)
Tap A + B from 9am to 10am = 90 ℓ
Tap B = 90 ℓ - 30 ℓ
= 60 ℓ (per hour)
60 ℓ × 2 = 120 ℓ
Ans: 120 ℓ

Q5) 6 units = 20%
12 units = 40%

3 units = 20% ÷ 2
= 10%
9 units = 10% × 3
= 30%
Ans : 30%

Q6) $\angle x = (180° - 84°) \div 2$
$= 96° \div 2$
$= 48°$ (isos triangle)

Q7)



7 parts = 210
1 part = 210 ÷ 7
= 30
5 parts = 5 × 30
= 150
Ans : $150

Q8(a) Jacket

$100\% = \$99$

$1\% = \$99 \div 100 = \$0.99$

$9\% = \$0.99 \times 9 = \$8.91$

Ans: \$8.91

Q8(b) $100\% = \$52$

$1\% = \$52 \div 100 = 0.52$

$15\% = 0.52 \times 15 = \$7.80$(1 shirt)

$\$7.80 \times 3 = \$23.40$

Ans: \$23.40

Q9(a) $\angle DCA = (180° - 138°) \div 2$

$= 42° \div 2$

$= 21°$(isos. triangle)

Ans: 21°

Q9(b) $\angle ABC = 180° - 47° - 22°$

$= 111°$(Sum of $\angle$ in a triangle)

Ans: 111°

Q9(c) ABCD (is not) a trapezium because the sum of $\angle BCD$and $\angle ADC$ (is not) $180°$.

Explanation

$138° + 21° + 22° = 181°$

$111° + 21° + 22° = 154°$

Q10(a) \$170

Ans: \$170

Q10(b) Mon spent: $\$200 - \$170 = \$30$

Tue spent: $\$170 - \$120 = \$50$

$\frac{50}{200} = \frac{1}{4}$

Ans: $\frac{1}{4}$

Q10(c) $100\% = 55$

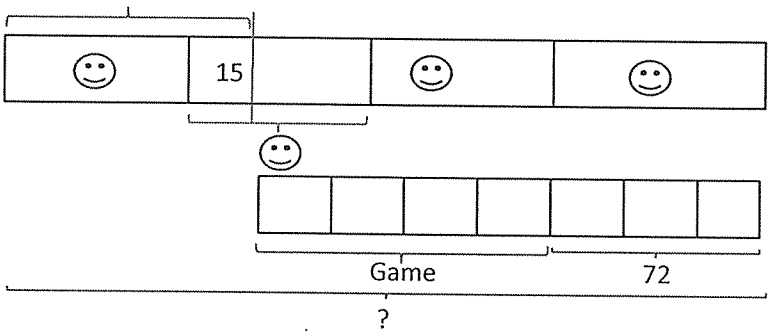
$1\% = 55 \div 100 = 0.55$

$40\% = 0.55 \times 40 = 22$ (Spent on Friday)

$55 - 22 = 33$

Ans: \$33

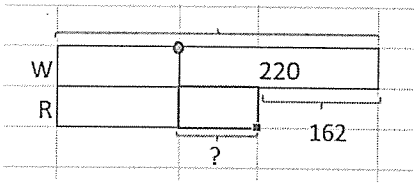
Q11)



3 parts = 72
1 part = 72 ÷ 3
= 24
7 parts = 24 × 7
= 168
3 units = 168 + 15
= 183
1 unit = 183 ÷ 3
= 61
4 units = 4 × 61
244

Ans: 244 marbles

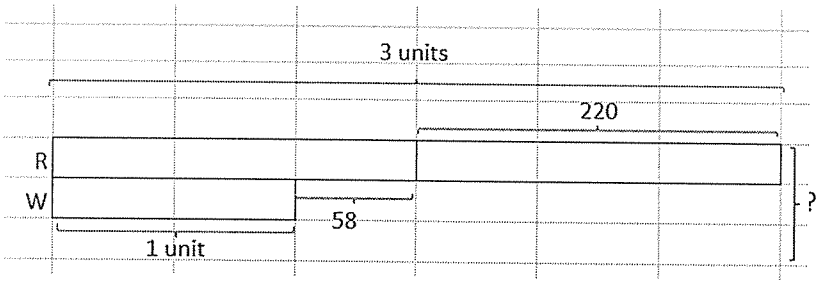
Q12a)



200 – 162 = 58

Ans (a): 58 more red buttons

b)



2 units = 220 + 58
= 278
1 unit = 278 ÷ 2
= 139
4 units = 139 × 4
= 556

Ans (b): 556 buttons

13a) 3 units = 63 – 59.4
= 3.6
1 unit = 3.6 ÷ 3
= 1.2
4 units = 1.2 × 4
= 4.8

Ans (a): 4.8 cm

b) 7 units = 1.2 × 7
= 8.4
59.4 – 8.4 = 51
51 ÷ 2 = 25.5
25.5 + 1.2 = 26.7

Ans (b): 26.7 cm

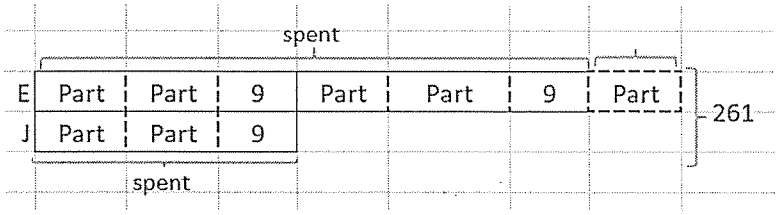
14a) $\frac{1}{4}$ of water in Tank P = 25 × 9 × 8
= 1800
$\frac{3}{4}$ of water in Tank P = 1800 × 3
= 5400

Ans (a): 5400 m ℓ

b) Vol of Tank Q = 25 × 9 × 23
= 5175
Water poured to Tank P = 5175 – 2775
= 2400
Capacity of P = 5400 + 2400
= 7800
7800 m ℓ = 7800 ÷ 1000
= 7.8 ℓ

Ans (b): 7.8 ℓ

15a)



9 × 3 = 27
9 parts = 261 -27
= 234
1 Part = 234 ÷ 9
= 26
2 Parts = 26 × 2
= 52
52 + 9 = 61

Ans (a): $61

b) 5 parts = 26 × 5
= 130
130 + 9 + 9 = 148

Ans (b) : $148