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2022

PRIMARY 5 MATH TEST PAPERS

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ANGLO-CHINESE SCHOOL (JUNIOR) SA2 PAPER

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 (OAS).

(20 marks)

1. Find the value of 28×7000 .

- (1) 196
- (2) 1960
- (3) 19 600
- (4) 196 000

2. Find the value of $300 + 100 + 5 - 12 \times 5$.

- (1) 20
- (2) 260
- (3) 340
- (4) 1540

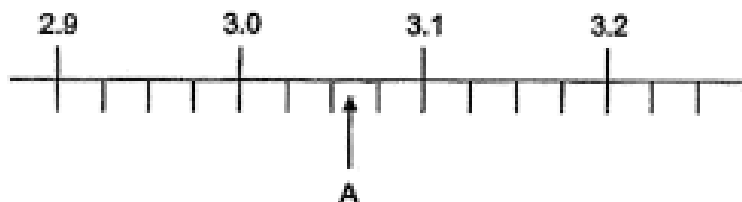
3. Express $3\frac{5}{8}$ as a decimal.

- (1) 3.58
- (2) 3.85
- (3) 3.125
- (4) 3.625

4. Which digit in 23.479 is in the tenths place?

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

5. Part of a scale is shown below. What is the most likely value of the reading at A?



- (1) 3.6
 - (2) 3.4
 - (3) 3.06
 - (4) 3.04
6. Express 8.07 ℓ in litres and millilitres.

- (1) 8 ℓ 7 ml
- (2) 8 ℓ 70 ml
- (3) 80 ℓ 7 ml
- (4) 80 ℓ 70 ml

7. Shaun had 11 kg of rice. He had 6 times as much rice as Pete. How much rice did Pete have at first?

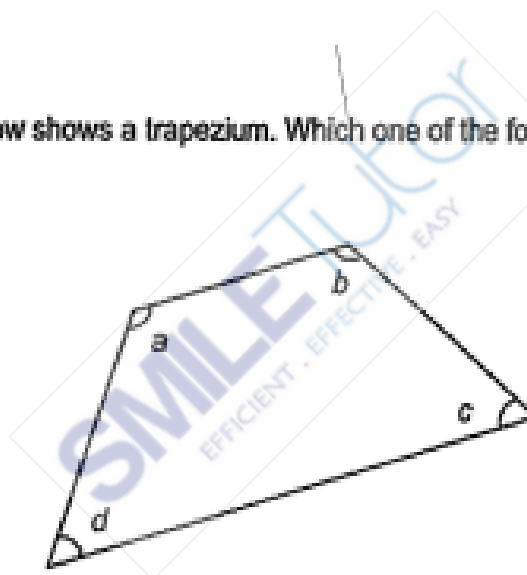
- (1) $\frac{6}{11}$ kg
- (2) $\frac{5}{11}$ kg
- (3) $1\frac{5}{6}$ kg
- (4) $2\frac{1}{5}$ kg

8. The table below shows the number of goals scored by the soccer teams.

Number of goals	0	1	2	3	4
Number of teams	4	3	5	5	3

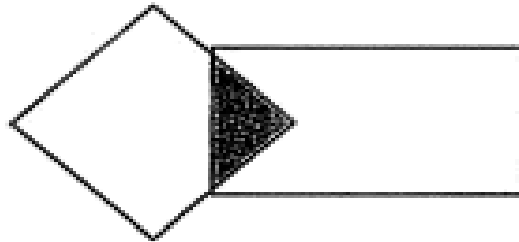
How many goals did all the teams score altogether?

- (1) 10
 - (2) 20
 - (3) 40
 - (4) 44
9. The figure below shows a trapezium. Which one of the following is correct?

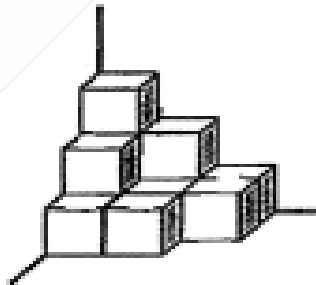


- (1) $\angle a = \angle c$
 - (2) $\angle b = \angle c$
 - (3) $\angle c + \angle d = 180^\circ$
 - (4) $\angle a + \angle d = 180^\circ$
10. There were 96 vehicles in the carpark. 72 were cars and the rest were motorcycles. What was the ratio of the number of cars to the number of motorcycles?
- (1) 1 : 3
 - (2) 1 : 4

11. The figure below is made up of a rectangle and a square.
 $\frac{2}{9}$ of the square is shaded and $\frac{1}{6}$ of the rectangle is shaded.
 What fraction of the figure is shaded?



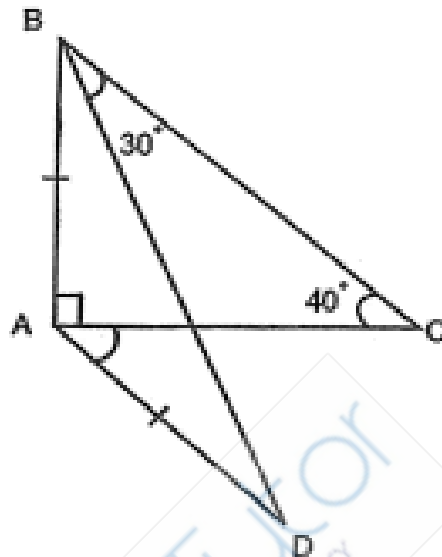
- (1) $\frac{4}{21}$
 (2) $\frac{2}{21}$
 (3) $\frac{2}{19}$
 (4) $\frac{7}{18}$
12. The solid figure below is made up of unit cubes.



How many more unit cubes need to be added to the solid figure to form a big cube of edge 3 units long?

- (1) 12
 (2) 13
 (3) 14
 (4) 15

13. In the figure below, not drawn to scale, ABC is a right-angled triangle and ABD is an isosceles triangle. $\angle CBD = 30^\circ$ and $\angle ACB = 40^\circ$. Find $\angle CAD$.



- (1) 20°
 (2) 30°
 (3) 40°
 (4) 50°
14. The total mass of 3 similar pens and 5 similar pencils is 0.175 kg. Each pen weighs 5 g heavier than each pencil. Find the mass of one such pen.
- (1) 0.015 kg
 (2) 0.02 kg
 (3) 0.025 kg
 (4) 0.032 kg

15. Machine A can print 80 sheets of paper in 40 seconds. Machine B can print 30 sheets of paper in 20 seconds. Jake started both machines at the same time. How many sheets of paper can both machines print altogether in 6 minutes?
- (1) 110
(2) 660
(3) 1260
(4) 2100

END OF BOOKLET A

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers to the units stated. (10 marks)

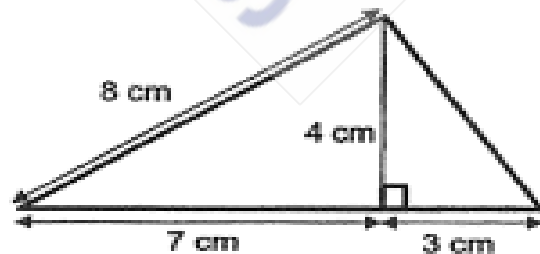
16. Round 13 954 to the nearest hundred.

Ans: _____

17. How many tenths are there in $7\frac{3}{5}$?

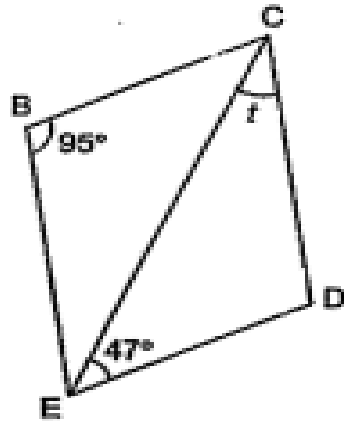
Ans: _____

18. Find the area of the triangle below.



Ans: _____ cm²

19. In the figure, BCDE is a parallelogram. Find $\angle t$.



Ans: _____°

20. What is 2% of 80?

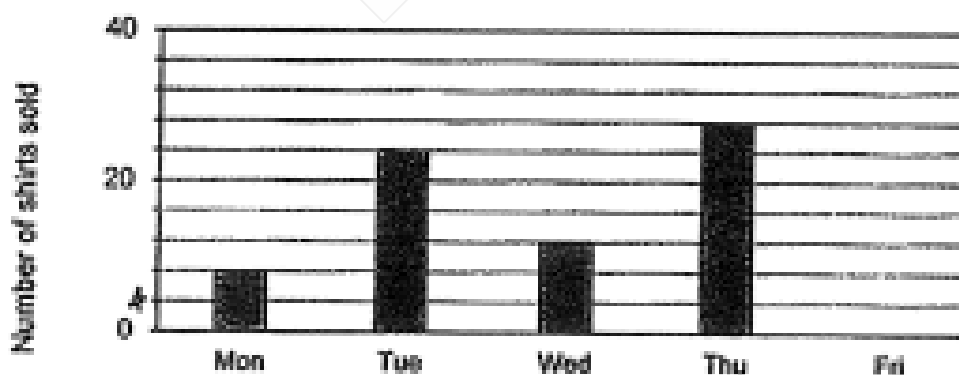
Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated. (20 marks)

21. A container with 20 identical marbles has a mass of 1.4 kg. The mass of the same container with 120 identical marbles is 1.8 kg. Find the mass of one marble. Leave your answer in kilograms.

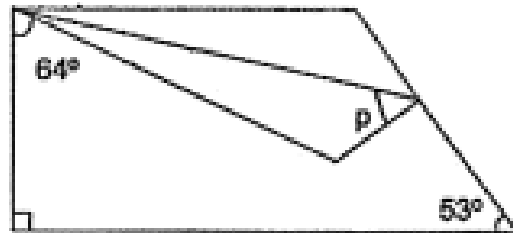
Ans: _____ kg

22. Mr Siah had some shirts and he sold all his shirts by Friday. The table shows the number of shirts sold by him from Monday to Friday. The bar for Friday was not drawn.



Mr Siah sold $\frac{3}{5}$ of the shirts from Monday to Thursday. How many shirts did he sell on Friday?

23. A piece of paper in the shape of a trapezium is folded as shown below. Find $\angle p$.



Ans: _____

24. XYZ Bank offered an interest rate of 3% per year. Andrea set up a new account with XYZ Bank and deposited \$5200. How much money would Andrea have in the bank at the end of 1 year?

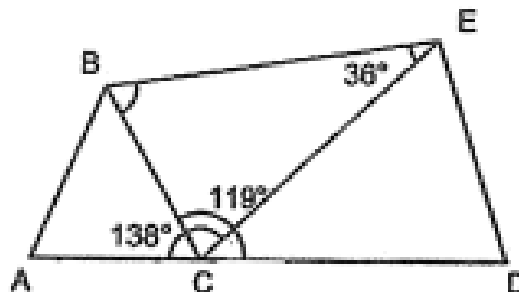
Ans: \$ _____

25. Books were arranged in shelves. There were 12 books in each shelf except for 3 shelves which were empty. John rearranged the books so that all the shelves had 10 books each. How many shelves had books at first?

Ans: _____

26. Two numbers add up to 3909. One of them is a 3- digit number and the other number is a 4- digit number, what is the smallest possible difference between the two numbers?

29. The figure below is made up of 3 triangles ABC, BCE and ECD. ACD is a straight line. $\angle BEC = 36^\circ$, $\angle ACE = 138^\circ$ and $\angle DCB = 119^\circ$. Find $\angle EBC$.



Ans: _____°

30. The table below shows the postage rates for mailing parcels to Malaysia.

Mass Step Not Over	Postage Charge
4 kg	\$3 per kg
Per additional step of 500 g or part thereof	\$2

Dhamiri paid \$18 to send a parcel to his friend in Malaysia. What was the smallest possible mass of the parcel sent by Dhamiri? Give your answer in grams

Ans: _____g

End of Booklet B

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)

1. Mandy had twice as many books as Rose. She gave 73 books to Rose. After that, Mandy had 154 books more than Rose. How many books did Mandy have at first?

Ans : _____

2. The height of a young plant was 48 cm. It grew an average of 0.12m every month. What was the height of the young plant after 1 year? Give your answer in metres.

3. The table shows the fare rates of a taxi service.

Distance travelled	Rate
First 1 km or less	\$4.20
Every 500 m thereafter or less up to 10 km	\$0.50
Every 500 m thereafter or less after 10 km	\$0.30

Zaiyn boarded a taxi from Newton to Seletar. The total distance travelled was 14 km. How much was Zaiyn's taxi fare?

Ans : \$ _____

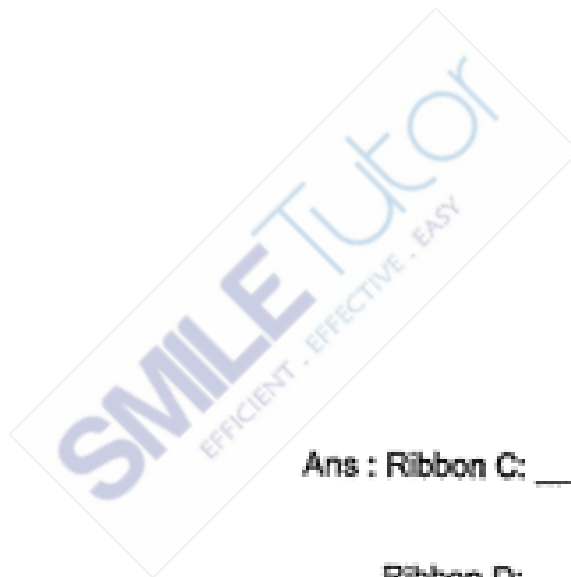
4. Daisy had some red and blue buttons. $\frac{3}{4}$ of her buttons were blue and the rest were red. She then bought 90 red buttons. In the end, $\frac{1}{3}$ of all her buttons were blue. How many buttons did Daisy have at first?

5. The table shows the length of four ribbons.

Ribbon	A	B	C	D
Length (cm)	11.3	6.5	?	?

The average length of the 4 ribbons is 9.6 cm.

Write down one possible set of lengths for Ribbon C and Ribbon D.



Ans : Ribbon C: _____ cm

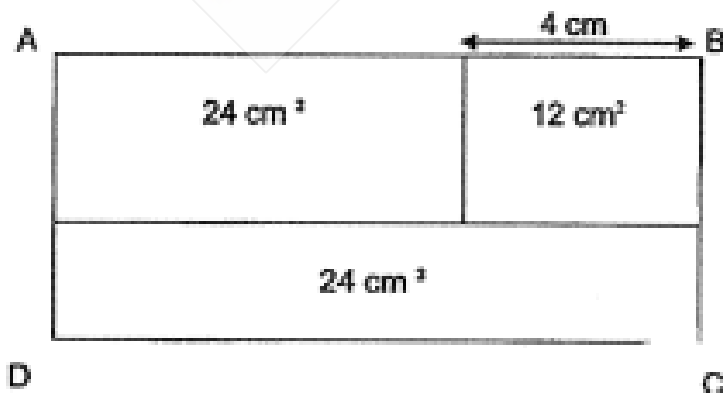
Ribbon D: _____ cm

For questions 6 to 17, 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. (45 marks)

6. Mable had 35 red beads and 185 yellow beads. She gave away 20 yellow beads. What percentage of the remaining beads were red?

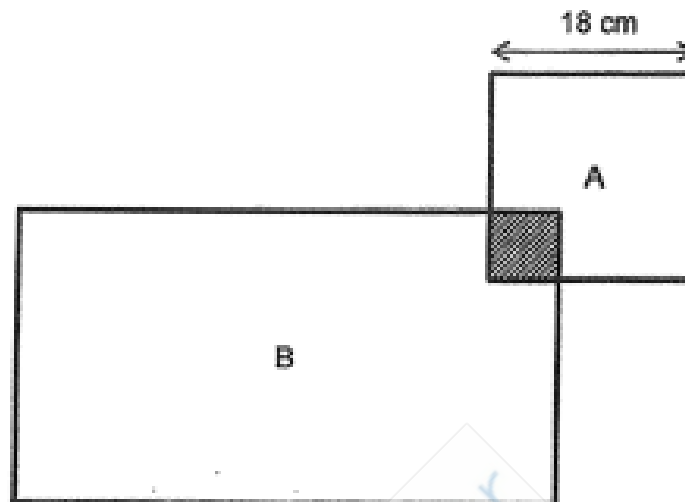
Ans : _____ [3]

7. In the figure below, rectangle ABCD is made up of 3 rectangles. The area of each rectangle is stated in each rectangle. Find the perimeter of rectangle ABCD.



Ans : _____ [3]

8. Square A and Rectangle B overlap each other as shown in the figure below. The length of the Square A is 18 cm. The area of Rectangle B is 3 times the area of Square A.



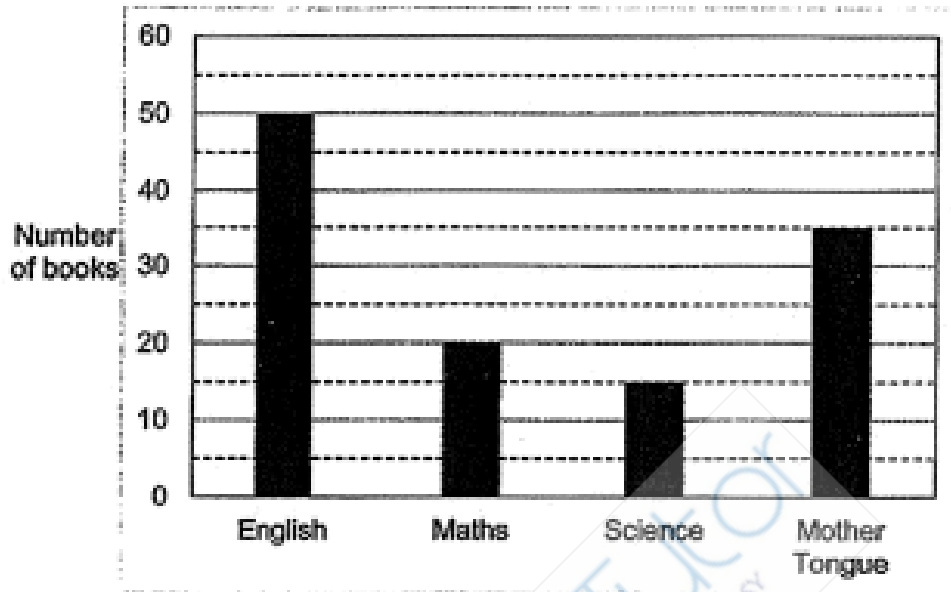
(a) What is the area of Rectangle B?

Ans : (a) _____ [2]

(b) The ratio of the shaded area to the unshaded area of Square A is 1 : 8. What is the unshaded area of Rectangle B?

Ans: (b) _____ [2]

9. Books in a class library are grouped according to the following four subjects: English, Maths, Science and Mother Tongue. The bar graph below shows the number of books of each subject in the class library.



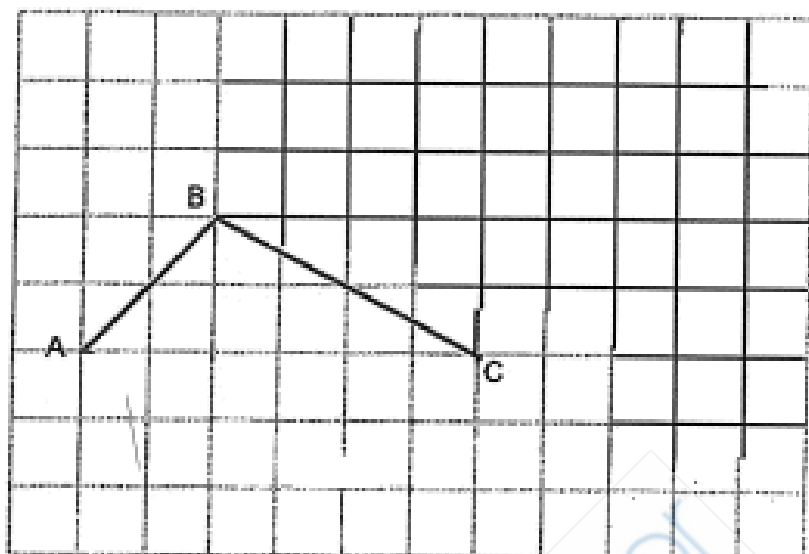
- (a) What fraction of books in the class library was of the English? Give your answer in the simplest form.

Ans : (a) _____ [1]

- (b) There were 35 students in the class. Every student in the class took 3 or 4 books home to read over the school holidays. No book was left in the classroom. How many students took 4 books home?

Ans : (b) _____ [2]

10. In the square grid below, two sides of a parallelogram ABCD had been drawn.



- (a) Complete the drawing of parallelogram ABCD. [1]
- (b) BC also forms one side of a triangle CBE in which $CB = BE$ and all angles in triangle CBE are acute angles. Complete the drawing of triangle CBE within the square grid. [1]
- (c) What is the ratio of the area of triangle CBE to the area of parallelogram ABCD? Give your answer in the simplest form.

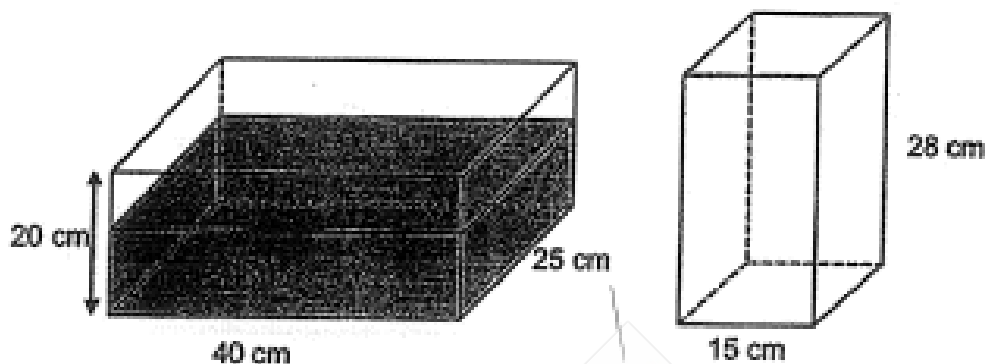
Ans : (c) _____ [1]

11. In July, Raees, Leon and James saved a total of \$1200. In August, Raees doubled his savings, Leon decreased his savings by \$180 and James increased his savings by \$110. Their savings were the same in August. What was Raees' savings in August?



Ans : _____ [3]

12. A rectangular tank measuring 40 cm long, 25 cm wide and 20 cm high was $\frac{3}{5}$ -filled with water. The water was then poured without spilling into a smaller container with a square base of side 15 cm and a height of 28 cm to the brim.



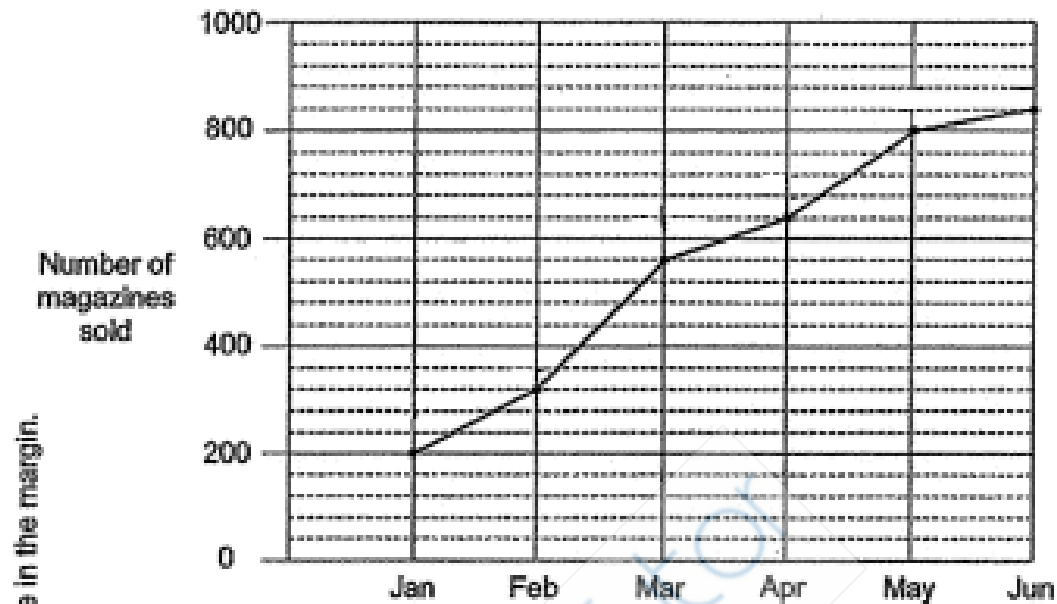
- (a) How much water was in the rectangular tank at first?

Ans: (a) _____ [2]

- (b) How much water is left in the rectangular tank? Give your answer in litres.

Ans: (b) _____ [2]

13. The graph below shows the number of magazines sold each month by a new publishing company from January to June.



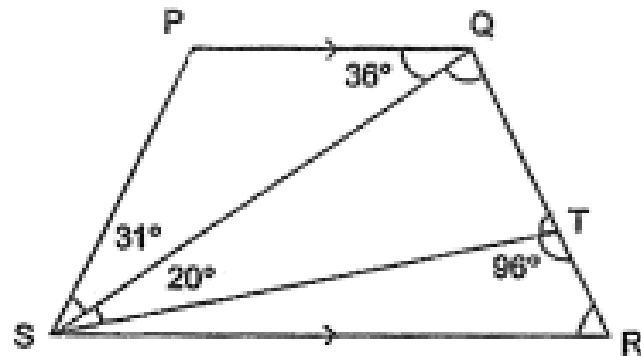
- (a) What fraction of the total number of magazines sold from January to June was sold in June? Give your answer in the simplest form.

Ans : (a) _____ [2]

- (b) Each magazine was sold at \$9.50. What was the average amount the company collected from selling the magazines from January to June?

Ans : (b) _____ [2]

14. Trapezium PQRS is made up of 3 triangles PQS, QST and RST. $\angle PSQ = 31^\circ$, $\angle PQS = 36^\circ$, $\angle QST = 20^\circ$ and $\angle STR = 96^\circ$.



(a) Find $\angle SQT$.

Ans : (a) _____ [2]

(b) Find $\angle SRT$.

Ans : (b) _____ [2]

15. A packet of sugar weighs 1.6 kg. A packet of rice weighs 1.8 kg more than a packet of sugar. A shopkeeper has 24 more packets of sugar than rice. How many packets of sugar does he have if the total mass of sugar and rice is 278.4 kg?



Ans : _____ [4]

16. Mrs Koh had a piece of ribbon. She used $\frac{2}{5}$ of it to tie 2 small boxes and 2 large boxes. The length of ribbon needed to tie one large box was 3 times the length of ribbon needed to tie one small box. Mrs Koh used $\frac{5}{6}$ of the remaining ribbon to decorate some presents.

(a) What fraction of the ribbon did Mrs Koh use to tie one small box?

Ans : (a) _____ [1]

- (b) The length of ribbon used for decorating the presents was 7.65 m longer than the length of ribbon used to tie one small box. What was the length of ribbon Mrs Koh have at first?

Ans: (b) _____ [4]

17. Some white and grey identical 6-sided shapes known as hexagons were used to form figures that follow a pattern. The first 4 figures are shown.

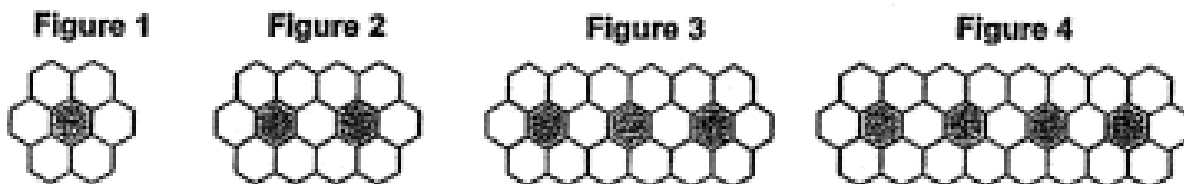


Figure Number	1	2	3	4	5	6
Number of grey hexagon	1	2	3	4	5	6
Number of white hexagon	6	11	16	21	_____	_____

[1]

- (a) Fill in the table for Figures 5 and 6.
 (b) What is the total number of grey and white hexagons for figure 100?

Ans : (b) _____ [2]

- (c) A figure in the pattern has 321 white hexagons. What fraction of the hexagons in this figure are grey?

Ans : (c) _____ [2]

End of Paper 2

ANSWER SHEET

PAPER 1 BOOKLET A


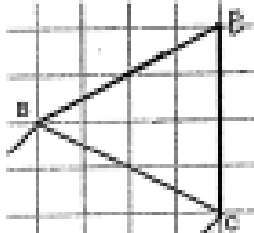
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	4	3	2	3	3	4	3

Q11	Q12	Q13	Q14	Q15
3	4	4	3	3

PAPER 1 BOOKLET B

Q16)	14000
Q17)	76
Q18)	20 cm ²
Q19)	38°
Q20)	1.6
Q21)	0.004 kg
Q22)	48
Q23)	40°
Q24)	\$5356
Q25)	15
Q26)	1911
Q27)	$\frac{5}{12}$
Q28)	70 cm
Q29)	67°
Q30)	5001 g

PAPER 2

Q1)	$1u \rightarrow 154 + 73 + 73 = 300$ $2u \rightarrow 300 \times 2 = \underline{600}$
Q2)	$(0.12 \times 12) + 0.48 = \underline{1.92 \text{ m}}$
Q3)	$\$4.20 + (18 \times \$0.50) + (8 \times \$0.30) = \underline{\$15.60}$
Q4)	$5u \rightarrow 90$ $1u \rightarrow 18$ $4u \rightarrow 18 \times 4 = \underline{72}$
Q5)	$9.8 \times 4 = 38.4$ $11.3 + 6.5 = 17.8$ $\text{Sum of C and D} \rightarrow 38.4 - 17.8 = 20.6 \text{ cm}$ <u>Ans: Any 2 values that add up to 20.6 cm</u>
Q6)	$185 - 20 = 165$ $165 + 35 = 200$ $\frac{35}{200} \times 100\% = \underline{17.5\%}$
Q7)	<u>34 cm</u>
Q8)	a) $18 \times 18 = 324$ $324 \times 3 = \underline{972 \text{ cm}^3}$
	b) $9u \rightarrow 324$ $1u \rightarrow 36$ $972 - 36 = \underline{936 \text{ cm}^2}$
Q9)	a) $\frac{5}{12}$
	b) Assume all students took 3 books home, $35 \times 3 = 105$ $120 - 105 = 15$ $4 - 3 = 1$ $15 \div 1 = \underline{15}$
Q10)	a) 
	b) 
	c) <u>2 : 3</u>
Q11)	$5u + \$180 - \$110 \rightarrow \$1200$

	$5u \rightarrow \$1150$ $1u \rightarrow \$230$ $2u \rightarrow \underline{\$460}$
Q12)	a) $\frac{3}{5} \times 40 \times 25 \times 20 = 12000 \text{ cm}^3$
	b) $15 \times 15 \times 28 = 6300$ $12000 - 6300 = 5700 \text{ cm}^3$ $5700 \text{ cm}^3 = 5.7 \text{ t}$
Q13)	a) $\frac{1}{4}$
	b) $\$9.50 \times 3360 = \31920 $\$31920 \div 6 = \underline{\$5320}$
Q14)	a) $180^\circ - 96^\circ = 84^\circ$ $180^\circ - 20^\circ - 84^\circ = \underline{76^\circ}$
	b) $180^\circ - 76^\circ - 36^\circ = \underline{68^\circ}$
Q15)	$1.6 \times 24 = 38.4$ $278.4 - 38.4 = 240$ $1.6 + 1.6 + 1.6 = 5$ $240 \div 5 = 48$ $48 + 24 = \underline{72}$
Q16)	a) $\frac{2}{5} \div 8 = \frac{1}{20}$
	b) $\frac{5}{6} \times \frac{3}{5} = \frac{1}{2}$ $\frac{1}{2} - \frac{1}{20} = \frac{9}{20}$ $9u \rightarrow 7.65$ $1u \rightarrow 0.85$ $20u \rightarrow \underline{17m}$
Q17)	a) <u>28, 31</u> b) $100 + (100 \times 5 + 1) = \underline{601}$ c) $321 - 1 = 320$ $64 \div 5 = 64$ $64 + 321 = 385$ Ans: $\frac{64}{385}$

AI TONG SCHOOL EOY PAPER

Paper 1 Booklet A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

- 1 Find the value of $(100 + 250 \div 10) \times 3$.
- (1) 105
(2) 175
(3) 325
(4) 375
- 2 Which of the following numbers when rounded to the nearest hundred becomes 61 400?
- (1) 61 349
(2) 61 449
(3) 61 450
(4) 61 495
- 3 How many sixths are there in $4\frac{5}{6}$?
- (1) 29
(2) 26
(3) 15
(4) 5

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4 Which of the following is not equal to $\frac{1}{2}$?

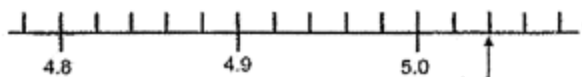
(1) $\frac{1}{3} + \frac{1}{6}$

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

(3) $\frac{1}{5} + \frac{3}{10}$

(4) $\frac{3}{7} + \frac{1}{14}$

5 What is the value of X in the scale below?



(1) 5.04

(2) 5.02

(3) 5.2

(4) 5.4

6 A typist can type 160 words in 5 minutes. At this rate, how long does the typist take to type 320 words?

(1) 10 minutes

(2) 2 minutes

(3) 32 minutes

(4) 64 minutes

7 What is the missing number in the \square ?

$$7 : \square = 3 : 15$$

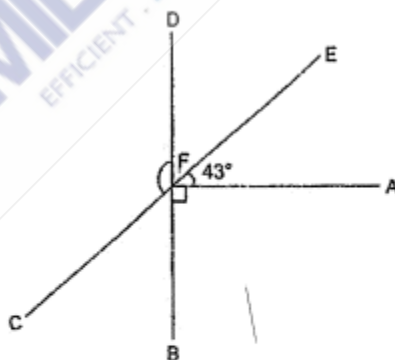
- (1) 19
- (2) 21
- (3) 24
- (4) 35

8 Four letters P, E, A, and R are shown below. How many of the letters has/have a line of symmetry?

P E A R

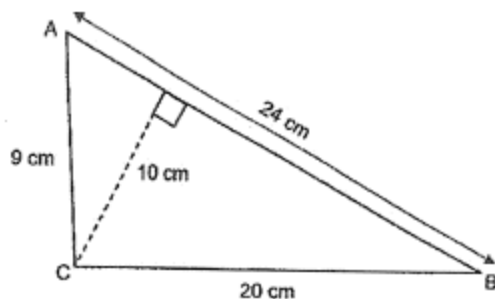
- (1) 1
- (2) 2
- (3) 3
- (4) 4

9 In the figure below, AF, BD and CE are straight lines. $\angle AFE = 43^\circ$. $\angle AFB$ is a right angle. Find $\angle CFD$.



- (1) 141°
- (2) 137°
- (3) 133°
- (4) 129°

- 10 What is the area of triangle ABC?



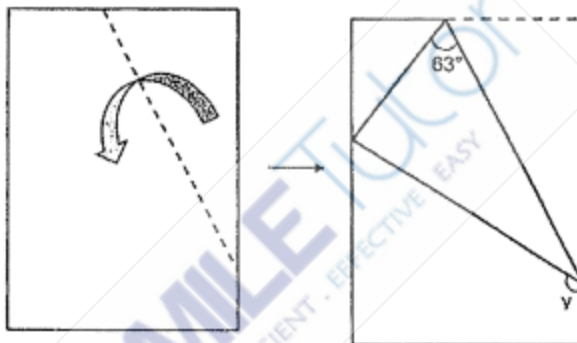
- (1) 90 cm^2
 (2) 108 cm^2
 (3) 120 cm^2
 (4) 240 cm^2
- 11 The ratio of the cost of an eraser to the cost of a pen is 2 : 5. A ruler costs twice as much as the eraser. What is the ratio of the cost of the ruler to the cost of the eraser to the total cost of the three items?
- (1) 2 : 4 : 5
 (2) 4 : 2 : 5
 (3) 2 : 4 : 11
 (4) 4 : 2 : 11

- 12 The average mass of four boys is 52 kg. The masses of Cameron and James are shown in the table below. Leon and Zach are of the same mass each. What is the total mass of Zach and Cameron?

Cameron	James	Leon	Zach
42 kg	56 kg	?	?

- (1) 55 kg
- (2) 92 kg
- (3) 97 kg
- (4) 110 kg

- 13 Jovan had a piece of rectangular paper and folded it along the dotted line as shown below. Find $\angle y$.



- (1) 117°
- (2) 126°
- (3) 144°
- (4) 153°

14 Which one of the figures below shows that 40% of the figure is shaded?

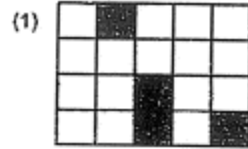


Figure A

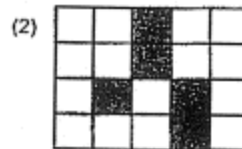


Figure B

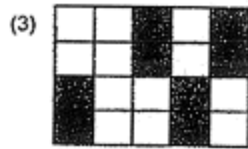


Figure C

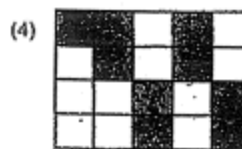


Figure D

- (1) Figure A
- (2) Figure B
- (3) Figure C
- (4) Figure D

15 In the figure below, a rectangular glass box is filled with some 1-cm cubes. What is the volume of the rectangular glass box?



- (1) 8 cm^3
- (2) 12 cm^3
- (3) 33 cm^3
- (4) 45 cm^3

Booklet B

Questions 16 to 20 carry 1 mark 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. (5 marks)

16 Express 1.3 t in litres and millilitres.

Ans: _____ ml

17 Find the value of 0.32×40 .

Ans: _____

18 Find the value of $\frac{5}{6} - \frac{4}{9}$. Give your answer in the simplest form.

Ans: _____

- 19 Mr Muthu bought 1 plush toy. He had to pay 7% GST.
How much did Mr Muthu pay for the plush toy inclusive of GST?



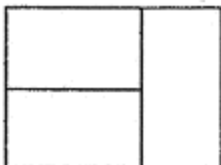
Ans: \$ _____

- 20 Express $\frac{3}{8}$ as a decimal.

Ans: _____

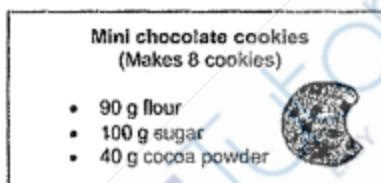
Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 The figure below is made up of 3 identical rectangles.
 The area of the figure is 24 cm^2 . What is the perimeter of the figure?



Ans: _____ cm

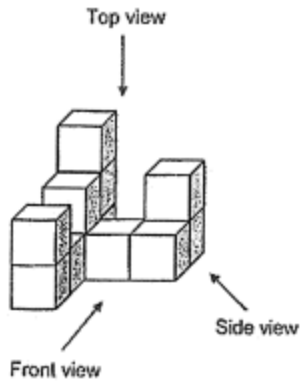
- 22 Theo is making some cookies based on this cookie recipe.
 He makes 8 cookies each time.



He has 600 g of flour, 420 g of sugar and 280 g of cocoa powder.
 How many cookies can Theo make at most?

Ans: _____

- 23 Joash stacked 12 unit cubes to form the solid below.



Draw the front view and the top view of the solid on the grids below.

Front View

•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

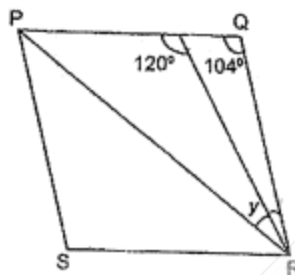
Top View

•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

- 24 The time Janet spends on her piano, dance and swimming lessons is in the ratio of 5 : 4 : 3. She spends 8 hours on all these enrichment lessons. How much time does she spend on her dance lesson? Leave your answer as a mixed number.

Ans: _____ h

- 25 In the figure, PQRS is a rhombus. Find $\angle y$.



Ans: _____ °

- 26 Mrs Tan baked a cake. She gave $\frac{1}{3}$ of the cake to Shirley.
 Then she gave $\frac{1}{6}$ of the remaining cake to Peter.
 What fraction of the cake was Mrs Tan left with?

Ans: _____

- 27 The table below shows the charges of an inline skates rental shop.

RENTAL CHARGES	
For the first 30 minutes	\$4
For every subsequent $\frac{1}{2}$ hour or part thereof	\$2.50

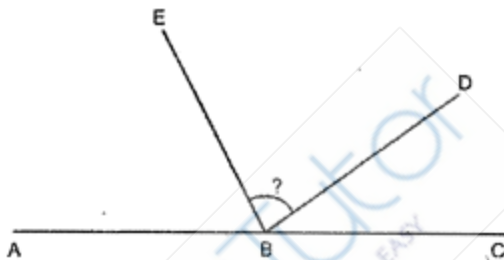
Elaine and Alicia each rented a pair of inline skates for 3.5 hours.
 How much did they have to pay altogether?

Ans: \$ _____

- 28 Deena had 20 fewer stamps than Joey at first. Deena gave 12 of her stamps to Joey. Joey now has 3 times as many stamps as Deena. How many stamps did Deena have at first?

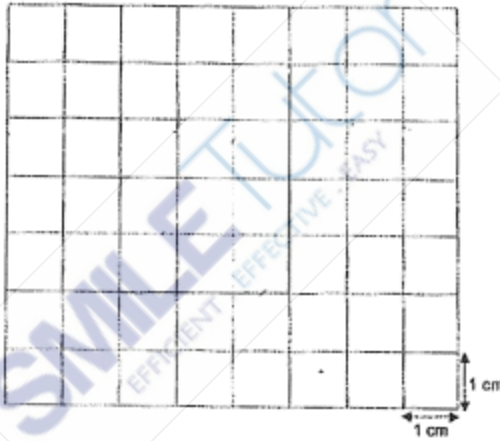
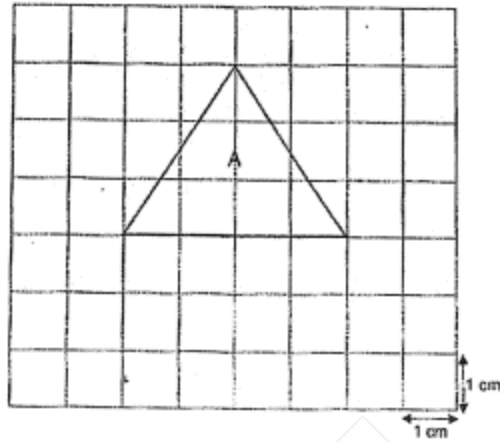
Ans: _____

- 29 ABC is a straight line. $\angle ABD$ is 149° and $\angle EBC$ is 118° . Find $\angle EBD$.



Ans: _____°

- 30 Two 1-cm grids are shown below. Triangle A is drawn on the grid.
Draw a right-angled triangle with the same area as triangle A on the second grid below.



End of Paper



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)

- 1 Patricia has 0.35 kg of flour. Mary has 0.68 kg more flour than Patricia.
How much flour do they have altogether?

Ans: _____ kg

- 2 After Patrick spent \$6 on a meal, he had \$24 left.
What percentage of his money did he spend?

Ans: _____ %

- 3 Mdm Koh paid \$266 for 8 swimming lessons. She paid the same amount for each lesson. At this rate, how much would she need to pay for 6 lessons only?

Ans: \$ _____

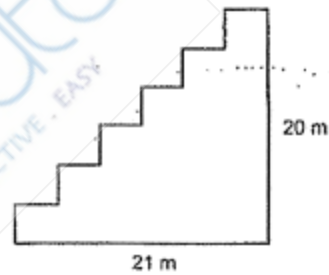
- 4 A shop opens daily for the time shown in the table below.

Opening hours
8.30 am to 12.30 pm
2 pm to 4.45 pm
5.30 pm to 9 pm

How many hours and minutes is the shop open each day?

Ans: _____ h _____ min

- 5 In the figure below, all lines meet at the right angles.
What is the perimeter of the figure below?

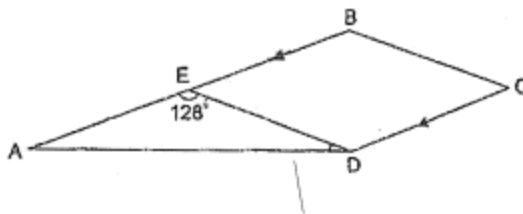


Ans: _____ m

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.

(45 marks)

- 6 In the figure, ABCD is a trapezium and BCDE is a rhombus.
 $AE = ED$, $\angle AED = 128^\circ$. Find $\angle ADC$.



Ans: _____ [3]

- 7 A wooden plank is sawed into two parts.
 The first part is 3.75 m long. It is 1.38 m longer than the second part.
 How long was the wooden plank before it was sawed?

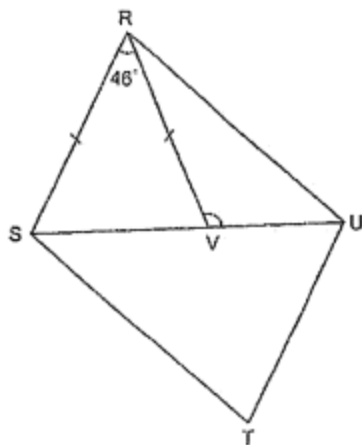
Ans: _____ [3]

- 8 There were 147 children and some adults at a carnival.
 $\frac{2}{3}$ of the adults were men and the rest were women. $\frac{2}{9}$ of the people at the carnival were women. How many people were at the carnival?



Ans: _____ [3]

- 9 In the figure below, $RSTU$ is a parallelogram.
 $RS = RV$ and $\angle SRV = 46^\circ$.



- (a) Name an angle that has the same size as $\angle STU$.

Ans : (a) _____ [1]

- (b) Find $\angle RVU$.

Ans : (b) _____ [2]

10 David used 60 blue tiles, 48 red tiles and 24 green tiles to design a project.

- (a) Find the ratio of the number of blue tiles to the number of red tiles to the total number of tiles that he used for the project.
Give your answer in its simplest form.

Ans : (a) _____ [1]

- (b) David designed another project using blue, red and green tiles in the same ratio as above. He used a total of 792 tiles.
How many green tiles did he use?

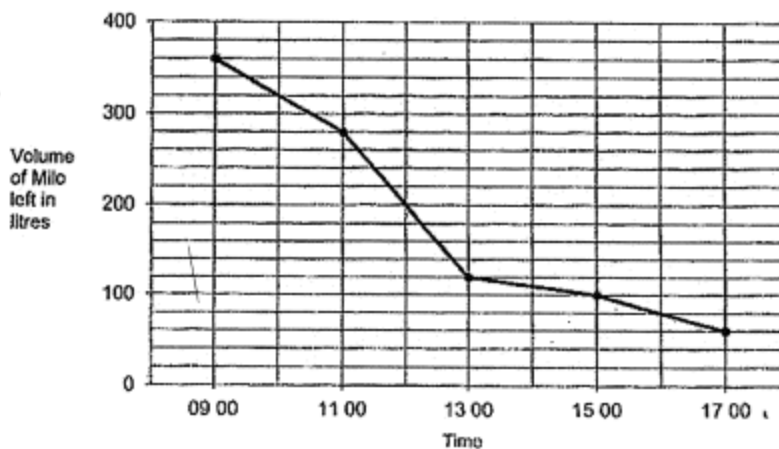
Ans : (b) _____ [2]

- 11 Aisha, Belle and Carl baked an average of 128 cupcakes.
Aisha and Belle baked an average of 126 cupcakes.
Belle and Carl baked an average of 115 cupcakes.
How many cupcakes did Belle bake?



Ans: _____ [4]

- 12 At a Sports carnival, cups of Milo were distributed from a Milo van to students. The line graph shows the volume of Milo left in the Milo van at different times of the day.



- (a) During which two-hour interval was the decrease in the volume of Milo the greatest?

Ans : (a) _____ to _____ [1]

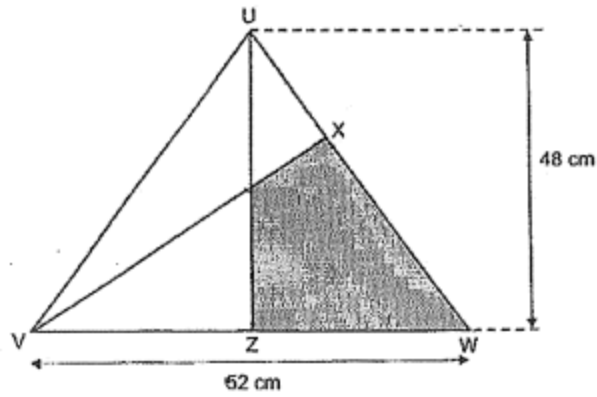
- (b) How many litres of Milo was distributed from 09 00 to 17 00?

Ans : (b) _____ [2]

- (c) The volume of each cup of Milo distributed was 120 ml. How many cups of Milo were distributed from 09 00 to 17 00?

Ans : (c) _____ [1]

- 13 In the diagram, UVW is a triangle. VYX and UYZ are straight lines. Y is the mid-point of UZ and Z is the mid-point of VW . WX is twice as long as UX . UZ is 48 cm and VW is 52 cm. What is the area of the shaded part $WXYZ$?



Ans: _____ [4]

- 14 Alice, Brenda, Charles and David shared a box of cards. David took $\frac{2}{5}$ of the cards from the box. Charles took $\frac{3}{10}$ of the remaining cards. Brenda took 18 more cards than Charles and Alice took the rest of the cards. Alice had 54 cards. How many cards were there in the box at first?



Ans : _____ [5]

15 Lines are drawn to form figures that follow a pattern.

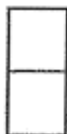


Figure 1



Figure 2

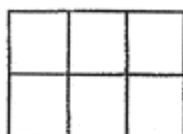


Figure 3

?

Figure 4

Figure	Number of squares	Number of lines drawn
1	2	7
2	4	12
3	6	17
4	8	?

(a) How many lines are needed to form Figure 4?

Ans : (a) _____ [1]

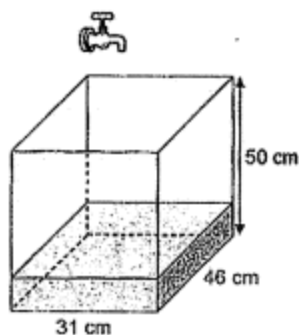
(b) How many squares are there in Figure 36?

Ans : (b) _____ [1]

(c) Which Figure is drawn with 62 lines?

Ans : (c) _____ [2]

- 16 A rectangular tank 31 cm long, 46 cm wide and 50 cm high contained 6.8 ℓ of water at first.



- (a) What is the capacity of the rectangular tank?

Ans : (a) _____ [1]

- (b) The tap was turned on. Water flowed from the tap into the tank at a rate of 3 ℓ per minute. At this rate, how long did it take to fill the tank?

(b) _____ [3]

- 17 Marcus bought some books and files for a total of \$192.
2 books and 1 file cost \$11.20. Each book cost 3 times as much as a file.
He bought 8 more books than files.

(a) What is the cost of 1 file?

Ans : (a) _____ [1]

(b) How many files did Marcus buy?

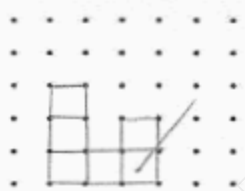

Ans : (b) _____ [4]

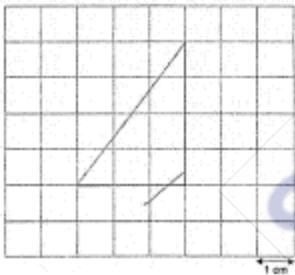
ANSWER SHEET

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	1	2	1	1	4	2	3	3
Q 11	Q12	Q13	Q14	Q15					
4	3	2	3	4					

PAPER 1 BOOKLET B

Q16)	$1\ell\ 300ml$
Q17)	12.8
Q18)	$\frac{7}{18}$
Q19)	$20 \div 100 = 0.2$ $20 + 0.2 = 20.2$ $0.2 \times 7 = 1.4$ $20 + 1.4 = \$21.40$
Q20)	$125 \times 3 = 0.375$
Q21)	$24 \div 3 = 8$ $4 + 4 + 4 + 4 + 2 + 2 = 20cm$
Q22)	$280 \div 40 = 7$ $4 \times 8 = 32$
Q23)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Front View</p>  </div> <div style="text-align: center;"> <p>Top View</p>  </div> </div>

Q24)	$8 \times 60 = 480$ $480 \div 12 = 40$ $40 \times 4 = 160$ $160 \div 60 = \frac{16}{6}$ $= 2\frac{4}{6}$ $= 2\frac{2}{3} \text{ h}$
Q25)	$180 - 120 = 60$ $180 - 104 - 60 = 16$ $180 - 104 = 76$ $76 \div 2 = 38$ $38 - 16 = 22^\circ$
Q26)	$\frac{5}{9}$
Q27)	$3 \times 2 = 6$ $6 \times 2.5 = 15$ $15 + 4 = 19$ $19 \times 2 = \$38$
Q28)	$12 + 12 + 20 = 44$ $44 \div 2 = 22$ $22 + 12 = 34$
Q29)	$149 - 118 = 31$ $118 - 31 = 87^\circ$
Q30)	

PAPER 2

Q1)	$0.35 + 0.35 + 0.68 = 1.38\text{kg}$
-----	--------------------------------------

Q2)	$24 + 6 = 30$ $\frac{6}{30} = \frac{1}{5}$ $= \frac{20}{100}$ $= 20\%$
Q3)	$266 \div 8 = 33.25$ $33.25 \times 6 = \$199.50$
Q4)	10h15min
Q5)	$20 + 20 + 21 + 21 = 82m$
Q6)	$180 - 128 = 52$ $52 \div 2 = 26$ $180 - 52 = 128$ $360 - 128 - 128 = 104$ $104 \div 2 = 52$ $128 + 26 = 154^\circ$
Q7)	$3.75 - 1.38 = 2.37$ $2.37 + 3.75 = 6.12m$
Q8)	$9u - 2u = 7u$ $2u + 2u = 4u$ $7u - 4u = 3u$ $147 \div 3 = 49$ $49 \times 9 = 441$
Q9)	a) $< SRU$ b) $180 - 46 = 134$ $134 \div 2 = 67$ $180 - 67 = 113^\circ$
Q10)	a) $5 : 4 : 11$ b) $60 : 48 : 24$ $10 : 8 : 4$ $5 : 4 : 2$ $5 + 4 + 2 = 11$ $792 \div 11 = 72$ $72 \times 2 = 144$
Q11)	$128 \times 3 = 384$ $126 \times 2 = 252$ $115 \times 2 = 230$ $252 + 230 = 482$ $482 - 384 = 98$

Q12)	a) 1100 to 1300 b) $360 - 60 = 300\ell$ c) $300 \times 1000 = 300000$ $300000 \div 120 = 2500$
Q13)	$\frac{1}{2} \times 48 \times 52 = 1248$ $\frac{1}{2} \times 26 \times 24 = 312$ $\frac{2}{3} \times 1248 = 832$ $832 - 312 = 520\text{cm}^2$
Q14)	$54 + 18 = 72$ $72 \div 4 = 18$ $18 \times 10 = 180$ $180 \div 3 = 60$ $60 \times 5 = 300$
Q15)	a) $17 + 5 = 22$ b) $36 \times 2 = 72$ c) $62 - 7 = 55$ $55 \div 5 = 11$ $11 + 1 = 12$
Q16)	a) $31 \times 46 \times 50 = 71300\text{cm}^3$ b) $71300\text{m}\ell = 71.3\ell$ $71.3 - 6.8 = 64.5$ $64.5 \div 3 = 21.5\text{min}$
Q17)	a) $2 \times 3 = 6$ $6 + 1 = 7$ $11.2 \div 7 = \$1.60$ b) $1.6 \times 3 = 4.8$ $4.8 \times 8 = 38.4$ $192 - 38.4 = 153.6$ $1.6 + 4.8 = 6.4$ $153.6 \div 6.4 = 24$

CATHOLIC HIGH SCHOOL (PRIMARY) EOY PAPER

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.
All diagrams are not drawn to scale. (20 marks)

1. Which of the following is four million, twenty-two thousand and twelve in numerals?

(1) 4 022 012
(2) 4 022 120
(3) 4 220 012
(4) 4 220 120

2. What does the digit 7 in 6.871 stand for?

(1) 7 ones
(2) 7 tenths
(3) 7 hundredths
(4) 7 thousandths

3. Which of the following is the same as 20 kg 95 g?

(1) 2095 g
(2) 2950 g
(3) 20 095 g
(4) 20 950 g

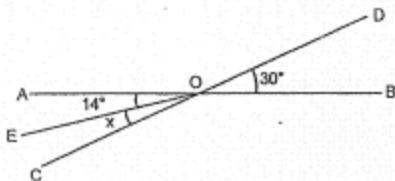
4. Express 0.5 as a percentage.

(1) 5%
(2) 50%
(3) 0.5%
(4) 0.05%

5. Sammy and Liting have 240 beads. Sammy has 60 beads. What is the ratio of Liting's beads to the total number of beads that Sammy and Liting have?

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

6. Line AOB and line COD are straight lines. $\angle AOE = 14^\circ$ and $\angle BOD = 30^\circ$. Find $\angle x$.



(1) 14°
 (2) 15°
 (3) 16°
 (4) 30°

7. Find the value of $10 \div 2000$.

(1) 20
 (2) 200
 (3) 0.05
 (4) 0.005

8. The table below shows the marks attained by 3 girls in a test.

Name	Marks
Alice	49
Betty	73
Carol	88

What is the average marks of the 3 girls?

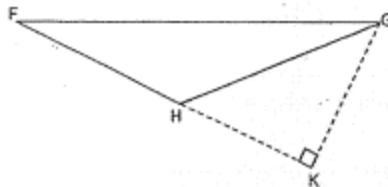
(1) 61
 (2) 70
 (3) 105
 (4) 210

9. Arrange the following volume in increasing order.

$12 \text{ t } 4 \text{ mt}$, $12\frac{4}{10} \text{ t}$, 1240 mt

(1) 1240 mt , $12 \text{ t } 4 \text{ mt}$, $12\frac{4}{10} \text{ t}$
 (2) $12\frac{4}{10} \text{ t}$, $12 \text{ t } 4 \text{ mt}$, 1240 mt
 (3) 1240 mt , $12\frac{4}{10} \text{ t}$, $12 \text{ t } 4 \text{ mt}$
 (4) $12 \text{ t } 4 \text{ mt}$, 1240 mt , $12\frac{4}{10} \text{ t}$

10. In the figure below, FH is the base of triangle FGH. Which is the height of triangle FGH?



- (1) FG
 (2) HG
 (3) KG
 (4) HK
-
11. At a cafe, the ratio of the number of tables to the number of chairs is 3 : 5. There is a total of 120 tables and chairs. How many more chairs than tables are there at the cafe?
- (1) 30
 (2) 45
 (3) 75
 (4) 80
-
12. Huishan had \$4000 in her bank account. The bank paid 2% interest at the end of each year. She did not withdraw her savings for 1 year. How much did she have in the bank at the end of 1 year?
- (1) \$80
 (2) \$800
 (3) \$4080
 (4) \$4200

13. Which of the following is closest to 1?

- (1) $\frac{3}{4}$
- (2) $\frac{3}{5}$
- (3) $\frac{5}{3}$
- (4) $\frac{7}{6}$

14. Grandma had $\frac{5}{9}$ kg of sugar. She used $\frac{1}{4}$ of it to make desserts. How much sugar did she have left?

- (1) $\frac{3}{4}$ kg
- (2) $\frac{5}{12}$ kg
- (3) $\frac{5}{36}$ kg
- (4) $\frac{11}{36}$ kg

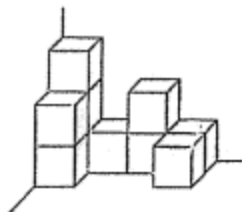
15. The ratio of the perimeter of a square to the perimeter of a rectangle was 3 : 4. The perimeter of the rectangle was 48 cm. Find the length of one side of the square.

- (1) 6 cm
- (2) 9 cm
- (3) 12 cm
- (4) 36 cm

END OF BOOKLET A

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (5 marks)

16. The solid shown below is formed using unit cubes. How many unit cubes are used to form the solid?



Ans: _____

17. Find the value of $49 - 10 + 7 \times 5$.

Ans: _____

18. $\frac{1}{7}$ kg of butter is needed to bake a cake. How many kilograms of butter is needed to bake 9 such cakes? Leave your answer as a mixed number.

Ans: _____ kg

19. Express $5\frac{7}{25}$ as a decimal.

Ans: _____

20. Find the volume of a cube of edge 3 cm.

Ans: _____ cm^3

SMILE Tutor
EFFICIENT · EFFECTIVE · EASY

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

(20 marks)

21. Find the value of $24 \div 7$. Give your answer to 2 decimal places.

Ans: _____

22. What is the missing number in the blank?

$$2 : 5 = \underline{\hspace{1cm}} : 35$$

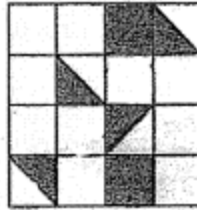
Ans: _____

23. In the figure below, all the lines meet at Point O. $\angle LOP = 215^\circ$. Find $\angle MOP$.



Ans: _____ °

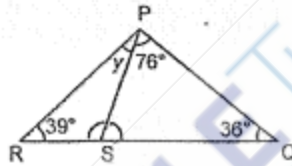
24. The following figure is made up of identical squares and triangles.



What percentage of the figure is shaded?

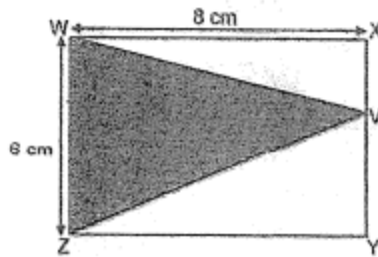
Ans: _____ %

25. PQR is a triangle. $\angle PQS = 36^\circ$, $\angle SPQ = 76^\circ$ and $\angle SRP = 39^\circ$. Find $\angle y$.



Ans: _____ °

26. WXYZ is a rectangle. Point V lies on the line XY. WX is 8 cm and WZ is 6 cm. Find the area of the shaded triangle WWZ.



Ans: _____ cm²

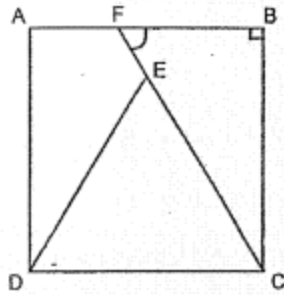
27. The rental rates for a bicycle at a shop are as shown below.

First 2 hours	\$20.00
Every additional $\frac{1}{2}$ hour or less	\$4.50

Dennis rented a bicycle at 8.15 a.m. and returned it at 12.00 noon on the same day. How much would he need to pay for the bicycle rental?

Ans: \$ _____

28. ABCD is a square and DEC is an equilateral triangle. Find $\angle CFB$.

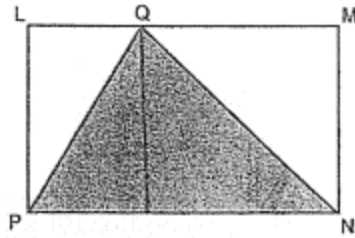


Ans: _____ °

29. The total length of 3 ribbons is 108 cm. The length of ribbon A is 26 cm. Ribbon C is twice the total length of ribbon A and ribbon B. What is the length of ribbon B?

Ans: _____ cm

30. LMNP is a rectangle. Point Q lies on line LM.



Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
The ratio of the area of triangle LQP to the area of triangle QMN is 1 : 2.			
Triangle PQN is an obtuse-angled triangle.			

Total marks for questions 21 to 30

END OF BOOKLET B
END OF PAPER 1

ANSWER SHEET

Booklet A

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

Booklet B

Q16		Q17	49-10+35=74
	Ans : 10		Ans : 74
Q18	$\frac{1}{7} \times 9 = \frac{9}{7} = 1\frac{2}{7}$	Q19	7×4=28
	Ans : $1\frac{2}{7}$		Ans : 5.28
Q20	3×3×3=27	Q21	
	Ans : 27		Ans : 3.43
Q22	2×7=14	Q23	360-215-90=55
	Ans : 14		Ans : 55
Q24	$\frac{4}{16} \times 100\% = 25\%$	Q25	180-76-36=68 180-68=112 180-112-39=29
	Ans : 25		Ans : 29
Q26	$\frac{1}{2} \times 6 \times 8 = 24$	Q27	20+9+9=38
	Ans : 24		Ans : 38
Q28	180-30-90=60	Q29	26+26+26=78 108-78=30 30÷3=10
	Ans : 60		Ans : 10
Q30	Not possible to tell False		

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (10 marks)

1. A speaker cost \$98 before GST. There was a 7% GST on the speaker. What was the cost of the speaker with GST?

Ans: \$ _____

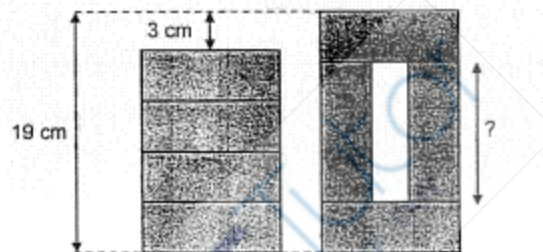
2. Tim had $1\frac{2}{3}$ m of rope. He had $1\frac{5}{9}$ m less rope than Jane. What was the length of rope that Jane had? Leave your answer as a mixed number.

Ans: _____ m

3. Amy had \$560 less than Harry. After Harry gave Amy some money, Amy had \$780 more than Harry. How much money did Harry give Amy?

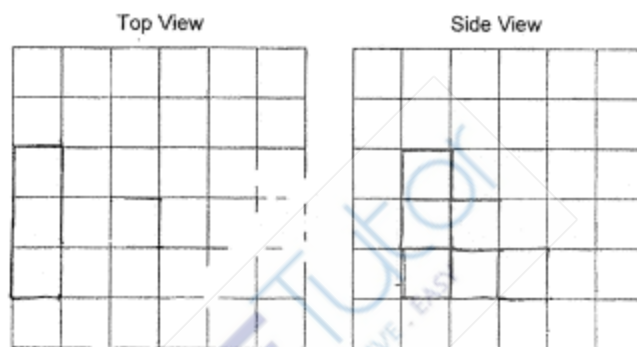
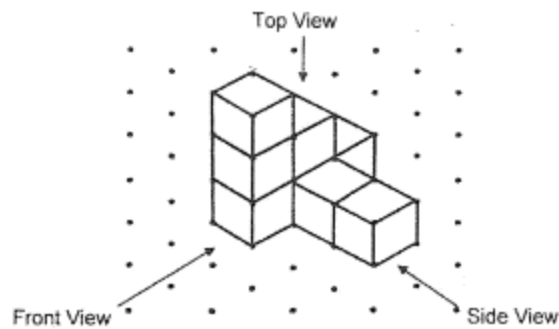
Ans: \$ _____

4. The figure below shows 8 identical rectangles arranged differently in 2 stacks. Find the length of a rectangle.



Ans: _____ cm

5. The following solid is made up of 8 cubes. Draw the top view and the side view of the solid.



For questions 6 to 17, show your working clearly in the space provided for each question 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.
(45 marks)

6. Bakery A and Bakery B baked the same number of buns at first. Bakery A sold 173 buns and Bakery B sold 353 buns. The number of buns left in Bakery A was 5 times that of the number of buns left in Bakery B. How many buns did each bakery bake at first?



Ans: _____ [3]

7. A reading survey was conducted with a class of 19 boys and 20 girls. Each boy read the same number of books. Each girl read 4 more books than each boy. The class read a total of 275 books. How many books did each boy read?



Ans: _____ [3]

8. The usual price of an oven was \$170 and the usual price of a toaster was \$50. During a sale, all items were sold at 30% discount.
- (a) Mrs Lim bought an oven at the sale. How much was the discount?
- (b) Mr Ravi bought a toaster during the sale. How much did he pay for the toaster?

Ans: (a) _____ [1]

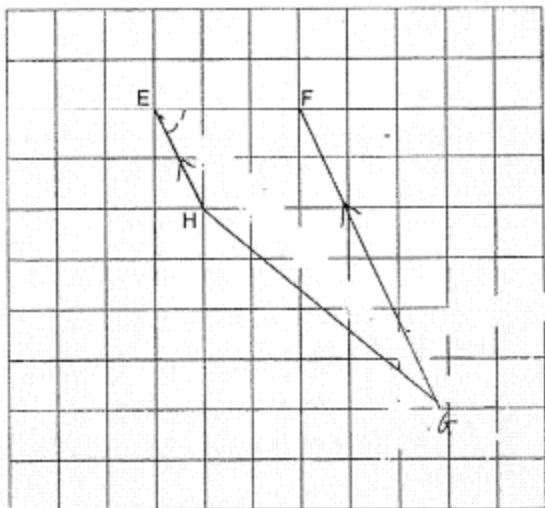
(b) _____ [2]

9. Adrian and Bert had a total of \$4563. After Adrian spent $\frac{1}{4}$ of his money and Bert spent $\frac{2}{3}$ of his money, they had an equal amount of money left. How much money was Bert left with?

Ans: _____ [3]

10. In the square grid below, EF is one side of trapezium EFGH.

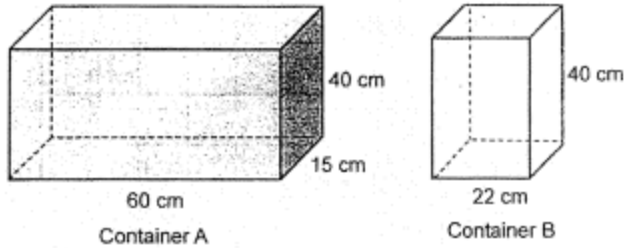
- Measure and write down the size of $\angle HEF$.
- Complete the drawing of trapezium EFGH, where FG is thrice that of EH and FG is parallel to EH.



[2]

Ans: (a) _____ [1]

11. Container A measures 60 cm by 15 cm by 40 cm. It is filled with water to the brim as shown below. The base of container B is a square of side 22 cm. Its height is 40 cm. Container B is empty at first. Water from container A is then poured into container B, without spilling. After container B is filled to the brim, there is still some water left in container A.



- (a) What is the capacity of container B? Leave your answer in cm^3 .
- (b) How much water is left in container A after container B is filled to the brim? Leave your answer in litres.

Ans: (a) _____ [1]

(b) _____ [3]

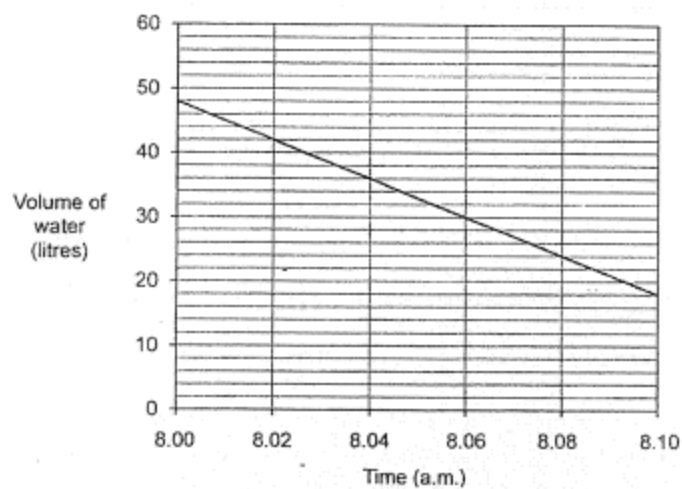
12. Roy bought garlic bread, mashed potatoes and pizzas for a party. The ratio of the number of garlic bread to the number of mashed potatoes to the number of pizzas bought was 2 : 7 : 3. The cost of each garlic bread, mashed potato and pizza was \$2.50, \$3 and \$10.50 respectively. He paid \$690 for all the food items.

- (a) What fraction of the food bought was mashed potatoes?
- (b) How many pizzas did Roy buy?

Ans: (a) _____ [1]

(b) _____ [3]

13. The line graph shows the amount of water that leaked from a tank in 10 minutes from 8.00 a.m. to 8.10 a.m.

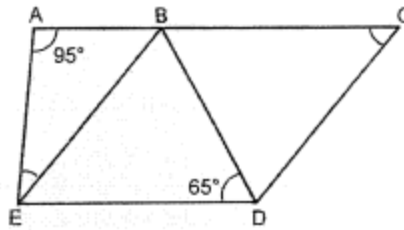


- (a) How much water leaked in 1 min?
- (b) At the rate shown in the graph, how many minutes would it take for the tank to be completely empty after 8.10 a.m.?

Ans: (a) _____ [2]

(b) _____ [2]

14. In the figure below, BCDE is a rhombus and ABE is a triangle. ABC is a straight line. $\angle EAB = 95^\circ$, $\angle BDE = 65^\circ$.



- (a) Find $\angle BCD$.
(b) Find $\angle AEB$.

Ans: (a) _____ [2]

(b) _____ [2]

15. Mrs Lee baked some pies. She gave 20 of them to her neighbours and $\frac{5}{8}$ of the remaining pies to her friends. She was left with $\frac{1}{4}$ of the total number of pies. How many pies did Mrs Lee bake?



Ans: _____ [5]

16. Ahmad had 480 marbles. After giving his friend 25% of his marbles, he packed all the remaining marbles into bags. Each bag contained either 6 or 8 marbles. He packed 50 bags in total.

- (a) How many marbles were packed into bags?
(b) How many bags were packed with 8 marbles each?

Ans: (a) _____ [2]

(b) _____ [3]

17. The first four figures of a pattern are as shown below.



Figure 1

Figure 2

Figure 3

Figure 4

The table below shows the number of shaded triangles and unshaded triangles used for each figure.

Figure Number	Number of shaded triangles	Number of unshaded triangles	Total number of shaded and unshaded triangles
1	1	0	1
2	3	1	4
3	6	3	9
4	10	6	16
5			25



[2]


- (a) Complete the table for Figure 5.
- (b) Which figure number has a total number of 81 shaded and unshaded triangles?

Ans: (b) _____ [2]

END OF PAPER 2

ANSWER SHEET

Paper 2	
Q1	$\frac{107}{100} \times 98 = 104.86$ Ans : 104.86
Q2	$1\frac{6}{9} + 1\frac{5}{9} = 3\frac{2}{9}$ Ans : $3\frac{2}{9}$
Q3	$780 - 560 = 220$ $220 \div 2 = 110$ $560 + 110 = 670$ Ans : 670
Q4	$19 - 3 = 16$ $16 \div 4 = 4$ $19 - 4 = 11$ Ans : 11
Q5	
Q6	$353 - 173 = 180$ $180 \div 4 = 45$ $45 + 353 = 398$ Ans : 398
Q7	$4 \times 20 = 80$ $275 - 80 = 195$ $195 \div 39 = 5$ Ans : 5
Q8	(a) $\frac{30}{100} \times 170 = 51$ (b) $\frac{30}{100} \times 50 = 15$ $50 - 15 = 35$ Ans : (a) \$51 (b) \$35
Q9	$4563 \div 13 = 351$ $351 \times 3 = 1053$ Ans : \$1053
Q10	(a) 64°  (b)
Q11	(a) $22 \times 22 \times 40 = 19360$ (b) $60 \times 15 \times 40 = 36000$ $36000 - 19360 = 16640$ $16640 \text{ ml} = 16.64 \text{ L}$ Ans: (a) 19360ml (b) 16.64L
Q12	(a) $2 + 7 + 3 = 12$ (b) $(2 \times 2.5) + (7 \times 3) + (3 \times 10.50)$ $= 5 + 21 + 31.5$ $= 57.5$ $690 \div 57.5 = 12$ $12 \times 3 = 36$ Ans : (a) $\frac{7}{12}$ (b) 36

Q13	<p>(a) $48 - 18 = 30$ $30 \div 10 = 3$</p> <p>(b) $18 \div 3 = 8$</p> <p>Ans: (a) 3L (b) 6min</p>
Q14	<p>(a) $180 - 65 - 65 = 50$ (b) $190 - 95 - 50 = 35$</p> <p>Ans : (a) 50° (b) 35°</p>
Q15	<p>$20 \div 4 = 5$ $3 + 9 = 12$ $12 \times 5 = 60$</p> <p>Ans: 60</p>
Q16	<p>(a) $75/100 \times 480 = 360$ (b) Assume all are bags of 6, $360 \div 6 = 60$ $10 \times 6 = 60$ $8 - 6 = 2$ $60 \div 2 = 30$</p> <p>Ans: (a) 360 (b) 30</p>
Q17	<p>(a) </p> <p>(b) $9 \times 9 = 81$</p> <p>Ans: (b) 81</p>

MAHA BODHI SCHOOL (PRIMARY) SA2 PAPER

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

1. In the number 32 145, which digit is in the hundreds place?

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

2. Round 7 438 200 to the nearest thousand.

- (1) 7 430 000
- (2) 7 438 000
- (3) 7 439 000
- (4) 7 440 000

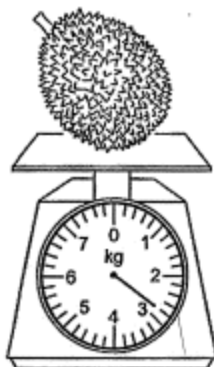
3. Express $5\frac{3}{20}$ as a decimal.

- (1) 5.3
- (2) 5.2
- (3) 5.15
- (4) 5.03

4. Which of the following is the same as 1007 cm?

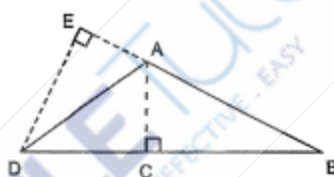
- (1) 1.007 m
- (2) 1.7 m
- (3) 10.07 m
- (4) 100.7 m

5. What is the mass of the durian.



- (1) 2 kg 4 g
- (2) 2 kg 80 g
- (3) 2 kg 400 g
- (4) 2 kg 800 g

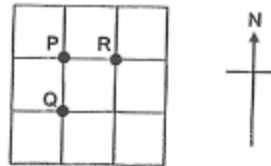
6. Which of the following shows the correct base and its corresponding height of triangle ABD?



- | | Base | Corresponding height |
|-----|------|----------------------|
| (1) | EB | DE |
| (2) | AB | DE |
| (3) | BC | AC |
| (4) | DC | AC |

7. P, Q and R are three points on a square grid. Point Q is south of Point P.
 Point R is _____ of Point Q.

- (1) South-East
- (2) South-West
- (3) North-East
- (4) North-West



8. The table shows how much a shop charges for caps.

	Cost of each cap
First 10 caps	\$9 each
Every additional cap	\$8 each

Caylee bought 11 caps. How much did she pay?

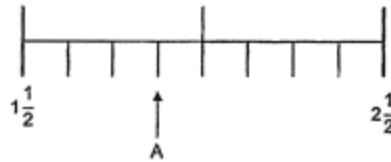
- (1) \$88
- (2) \$90
- (3) \$98
- (4) \$99

9. The masses of 3 boys are 25 kg, 29 kg and 36 kg. What is their average mass?

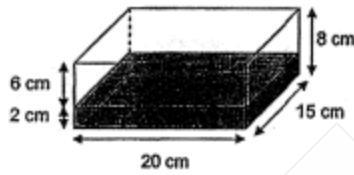
- (1) 18 kg
- (2) 30 kg
- (3) 90 kg
- (4) 270 kg

10. In the number line, what is the value represented by A?

- (1) $1\frac{3}{4}$
- (2) $1\frac{5}{6}$
- (3) $1\frac{7}{8}$
- (4) $2\frac{1}{4}$



11. The figure below shows a rectangular tank containing some water. What is the volume of the water in the tank?



- (1) 2400 cm^3
- (2) 1800 cm^3
- (3) 600 cm^3
- (4) 300 cm^3

12. A toy shop was having a sale. The original price of 8 identical toy cars was \$120. How much would each toy car cost after a discount of 20%?

- (1) \$12
- (2) \$15
- (3) \$24
- (4) \$96

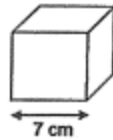
13. A surgical mask machine produces 50 masks in 5 minutes.
At this rate, how many hours are required to produce 6000 masks?
- (1) 6 hours
 - (2) 10 hours
 - (3) 24 hours
 - (4) 120 hours
14. Anna had a mix of twenty-cent and fifty-cent coins. Beth had only fifty-cent coins.
Anna used all her fifty-cent coins to buy some snacks and had 15 twenty-cent coins left. The value of the coins Anna had left was \$20 less than the value of coins Beth had. How many fifty-cent coins did Beth have?
- (1) 31
 - (2) 34
 - (3) 40
 - (4) 46
15. Janice obtains a total score of 146 points for her first two games. She wants to increase her average score by 5 points. How many points must she score for her next game?
- (1) 76
 - (2) 78
 - (3) 80
 - (4) 88



Remember to check your work!
~ End of Booklet A ~

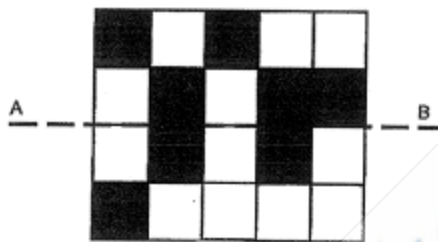
Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
 For questions which require units, give your answers in the units stated. (5 marks)

16. What is the volume of the cube?

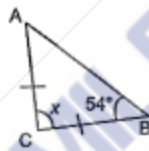


Ans: _____ cm^3

17. The figure below is made up of identical squares.
 Shade two more squares so that AB is the line of symmetry of the figure.



18. ABC is an isosceles triangle. Find $\angle x$.



Ans: _____ °

19. The table shows the local postage rates for sending packages within Singapore.

Mass step not over	Postage
30 g	\$0.60
80 g	\$0.90
200 g	\$1.30
300 g	\$1.50

Emily sent two packages. One has a mass of 35 g and the other has a mass of 220 g. How much postage did Emily pay altogether?

Ans: \$ _____

20. Joey made an average of 20 paper cranes daily. How many paper cranes would she make in 4 weeks?

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
 For questions which require units, give your answers in the units stated. (20 marks)

21. Find the value of $48 - 6 \div 2 \times (5 \div 6)$.

Ans: _____

22. Find the value of $3\frac{2}{3} - 1\frac{4}{5}$

Give your answer as a mixed number in the simplest form.

Ans: _____

23. Mrs Tan bought apples from the supermarket as shown below.
 How much would she pay for 30 apples?



5 apples for \$3.45

Ans: \$ _____

24. Mother put an apple pie into the oven to bake at 7.30 a.m. The pie took $\frac{3}{4}$ h to bake.
At what time was the pie ready?

Ans: _____ a.m.

25. There are 45 cookies in a box. 27 of them are chocolate cookies while the rest are butter cookies. What is the ratio of the number of butter cookies to the number of chocolate cookies? Give your answer in the simplest form.

Ans: _____

26. Andy recorded the number of books he read over 4 weeks as shown below.

Week	Number of books
1	9
2	5
3	7
4	11

What was the average number of books he read in a week over the 4 weeks?

Ans: _____

27. Raju packed 16.8 kg of sugar into packets of 500 g and packets of 400 g. There were 20 packets of 500 g of sugar. How many packets of 400 g of sugar did Raju pack?

Ans: _____

28. The diagram below shows a square and a rectangle. The square has the same area as the rectangle. What is the length of the rectangle?

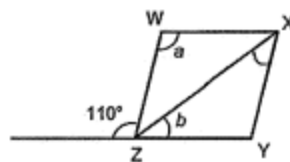


Ans: _____ cm

29. The difference between two numbers is 532. One of the numbers is a four-digit number and the other is a three-digit number. What is the smallest possible sum of the two numbers?

Ans: _____

30. In the diagram below, $WXYZ$ is a rhombus.
What is the difference between $\angle a$ and $\angle b$?



Ans: _____°

/ 4



Remember to check your work!
~ End of Booklet B ~

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)

1. The figure below shows 5 identical squares.



What percentage of the figure is shaded?

Ans: _____ %

2. James prepared slices of mini cakes to be served during a party. When he gives 7 slices to each guest, he will have 2 slices left. When he gives 3 slices to each guest, he will have 134 slices left. How many guests were at the party?

Ans: _____

3. Sili bought 3 chicken wings and 2 curry puff at \$9.90. Judy bought 1 chicken wing and 1 curry puff at \$3.90. What is the price of 1 chicken wing?

Ans: \$ _____

4. At first, three beakers contained some water as shown below. Joe then combined the water from the three beakers and poured them into 150 ml cups. How many 150 ml cups can he fill completely?



Ans: _____

5. The table below shows the wages of a part-time waiter in a cafeteria.

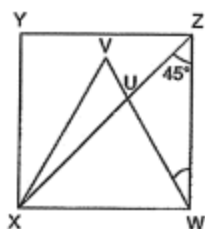
Time	Wages (Weekday)	Wages (Weekend)
First 8 hours	\$11 per hour	\$16 per hour
Subsequent hours	\$18 per hour	\$24 per hour

David worked for 10 hours on a Friday and 7 hours on a Saturday.
How much did he earn?

Ans: \$ _____

For questions 6 to 17, show your working clearly in the space provided for each question 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. (45 marks)

6. In the figure below, $WXYZ$ is a square and VWX is an equilateral triangle. XUZ and VUW are straight lines.



- (a) Find $\angle ZWU$.

Ans: (a) _____ [1]

- (b) Find $\angle XUW$.

Ans: (b) _____ [2]

7. Carol had 56 picture cards at first. After Carol gave $\frac{2}{7}$ of her picture cards to Bala, she had twice as many picture cards as Bala. How many picture cards did Bala have at first?

Ans: _____ [3]

8. In a box, there is a total of 105 red, green and blue balls. The ratio of the number of red balls to the number of green balls is 3 : 5. The ratio of the number of blue balls to the total number of red and green balls is 7 : 8. How many green balls are there?

Ans: _____ [3]

9. Mr Tan spent \$55 on a pair of shoes and 80% of his remaining money on a watch. He had \$48 left. How much money did he have at first?

Ans: _____ [3]

10. The first 20 numbers of a number pattern are given below.

3, 1, 8, 4, 5, 2, 3, 1, 8, 4, 5, 2, 3, 1, 8, 4, 5, 2, 3, 1,

(a) What is the 36th number?

Ans: (a) _____ [1]

(b) What is the sum of the first 127 numbers?

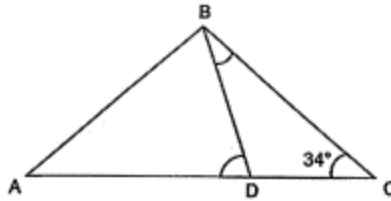
Ans: (b) _____ [3]

11. Mrs Lim and Mrs Wong each had some dough for making buns. Mrs Wong had 1.2 kg more dough than Mrs Lim. The same mass of dough was used for each bun. Mrs Wong made 10 buns and had 2.3 kg of dough left. Mrs Lim made 40 buns and had 50 g of dough left. What was the mass of dough needed for each bun?



Ans: _____ [4]

12. In the figure below ABC is a triangle. ADC is a straight line. $AB = AD = BC$ and $\angle BCD = 34^\circ$.



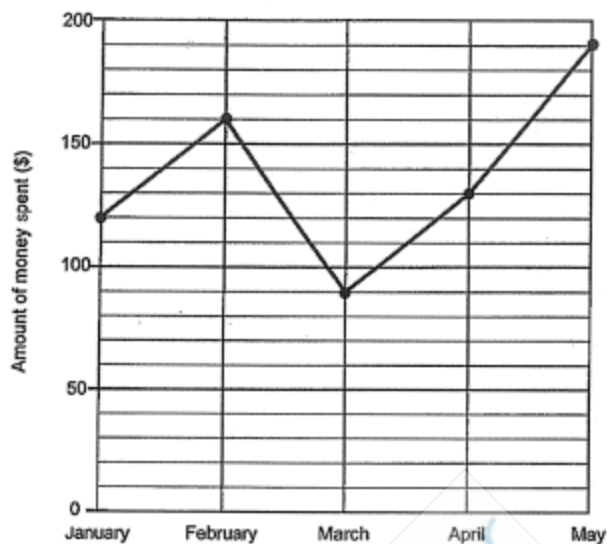
- (a) Find $\angle ADB$

- (b) Find $\angle DBC$

Ans: (a) _____ [2]

Ans: (b) _____ [2]

13. Travis received \$200 pocket money every month.
 The graph below shows the amount of money he spent from January to May.



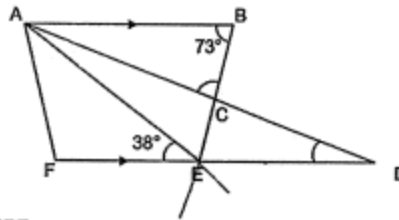
- (a) What is the total amount of money Travis saved from January to May?

Ans: (a) _____ [2]

- (b) Every month, Travis's father would give him an additional \$30 to add on to his savings if he saved \$50 or more. How much would Travis save in total for the 5 months?

Ans: (b) _____ [2]

14. In the figure below, ABEF is a trapezium and ADE is a triangle.
AE = ED and FED is a straight line.



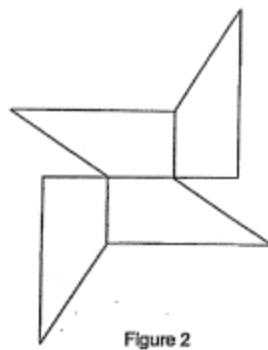
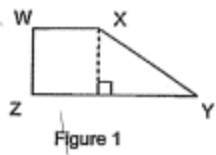
- (a) Find $\angle CDE$.

Ans: (a) _____ [1]

- (b) Find $\angle ACB$.

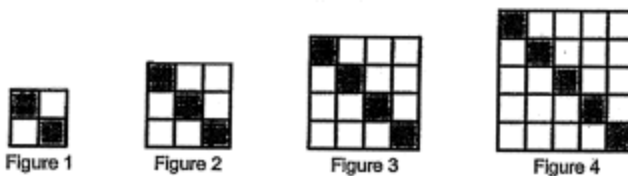
Ans: (b) _____ [2]

15. Figure 1 is made up of a square and a right-angled triangle. ZY is 8 cm longer than WX. Four of Figure 1 are used to form Figure 2. The perimeter of Figure 1 is 36 cm and the perimeter of Figure 2 is 108 cm. What is the area of Figure 2?



Ans: _____ [4]

16. The first four figures of a pattern are shown below.



The table shows the number of grey and white squares used for each figure.

Figure Number	1	2	3	4	5
Number of grey squares	2	3	4	5	
Number of white squares	2	6	12	20	

[1]

- (a) Fill in the table for Figure 5.
- (b) A figure in the pattern has a total of 225 white and grey squares.
What is the Figure Number?

Ans: (b) Figure _____ [2]

- (c) What is the number of white squares in Figure 300?

Ans: (c) _____ [2]

17. At a fruit stall, mangoes, peaches and oranges are sold. There were 24 more mangoes than peaches at first. After $\frac{3}{5}$ of the mangoes, $\frac{5}{9}$ of the peaches and 22 oranges were sold, there was an equal number of each type of fruits left unsold.

(a) What was the total number of fruits left unsold?

Ans: (a) _____ [2]

- (b) Mangoes and oranges are sold for \$3.50 each. Each peach cost twice as much as each mango. How much money was collected from the sale of the fruits?

Ans: (b) _____ [3]



Remember to check your work!
~ End of Paper ~

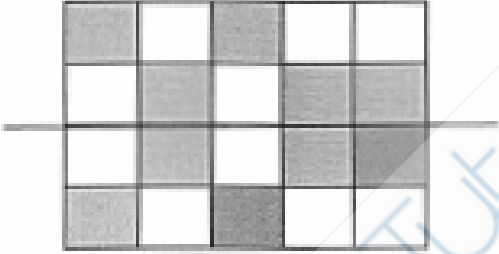
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ANSWER SHEET

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	3	3	4	2	3	3	2	3
Q 11	Q12	Q13	Q14	Q15					
3	1	2	4	4					

PAPER 1 BOOKLET B

Q16)	$7 \times 7 \times 7 = 343 \text{ cm}^3$
Q17)	
Q18)	$\angle X = 180^\circ - 54^\circ - 54^\circ = 72^\circ$
Q19)	$\$0.90 + \$1.50 = \$2.40$
Q20)	$4 \times 7 = 28$ $20 \times 28 = 560$
Q21)	$48 - 6 + 2 \times (5 \times 6) = 48 - 6 + 2 \times 11$ $= 48 - 6 + 2 \times 11$ $= 48 - 6 + 22 = 64$
Q22)	$3\frac{2}{3} - 1\frac{4}{5} = 3\frac{10}{15} - 1\frac{12}{15}$ $= 2\frac{25}{15} - 1\frac{12}{15}$ $= 1\frac{13}{15}$

Q23)	$30 \div 5 = 6$ $6 \times \$3.45 = \20.70
Q24)	8.15a.m.
Q25)	$45 - 27 = 18$ $18 : 27 = 6 : 9$ $= 2 : 3$
Q26)	$9 + 5 + 7 + 11 = 32$ $32 \div 4 = 8$
Q27)	$500g \times 20 = 10kg$ $16.8kg - 10kg = 6.8kg = 6800g$ $6800g \div 400g = 17$
Q28)	$30 \times 30 = 900cm^2$ $900cm^2 \div 20cm = 45cm$
Q29)	$1000 - 532 = 468$ $1000 + 468 = 1468$
Q30)	$\angle b = (180^\circ - 110^\circ) \div 2$ $= 35^\circ$ $\angle a = 180^\circ - 35^\circ - 35^\circ$ $= 110^\circ$ $\angle a - \angle b = 110^\circ - 35^\circ$ $= 75^\circ$

PAPER 2

Q1)	$\frac{1}{5} = 0.2$ $= 20\%$
Q2)	$134 - 2 = 132$ $7 - 3 = 4$ $132 \div 4 = 33$
Q3)	$2cw + 1cp \rightarrow \$9.90 - \$3.90 = \$6$ $1cw \rightarrow \$6 - \$3.90 = \$2.10$
Q4)	$450ml + 200ml + 250ml = 900ml$ $900ml \div 150ml = 6$
Q5)	$\$11 \times 8 = \88 $\$18 \times 2 = \36 $\$36 + \$88 = \$124$ $\$16 \times 7 = \112 $\$112 + \$124 = \$236$

Q6)	$\begin{aligned} \text{a) } \angle XWV &= 180^\circ \div 3 \\ &= 60^\circ \\ \angle ZWU &= 90^\circ - 60^\circ \\ &= 30^\circ \\ \\ \text{b) } \angle ZUW &= 180^\circ - 30^\circ - 45^\circ \\ &= 105^\circ \\ \angle XUV + \angle WUZ &= 105^\circ \times 2 \\ &= 210^\circ \\ \angle XUW + \angle VUZ &= 360^\circ - 210^\circ \\ &= 150^\circ \\ \angle XUW &= 150^\circ \div 2 \\ &= 75^\circ \end{aligned}$
Q7)	$\begin{aligned} 7u &= 56 \\ 1u &= 56 \div 7 = 8 \\ 2u &= 8 \times 2 = 16 \\ 5u &= 8 \times 5 = 40 \\ 40 \div 2 &= 20 \\ 20 - 16 &= 4 \end{aligned}$
Q8)	$\begin{aligned} 7 + 3 + 5 &= 15 \\ 15u &= 105 \\ 1u &= 105 \div 15 = 7 \\ 5u &= 7 \times 5 = 35 \end{aligned}$
Q9)	$\begin{aligned} 48 \div 20 &= 2.40 \\ 2.40 \times 100 &= 240 \\ 240 + 55 &= 295 \end{aligned}$
Q10)	$\begin{aligned} \text{a) } 1\text{set} &\rightarrow 6 \text{ numbers} \\ 36 \div 6 &= 6 \\ \text{the } 6^{\text{th}} \text{ number is } &2 \\ \text{b) } 127 \div 6 &\approx 21 \\ 1\text{set total} &\rightarrow 3 + 1 + 8 + 4 + 5 + 2 = 23 \\ 23 \times 21 &= 483 \\ 21 \times 6 &= 126 \\ 127 - 126 &= 1 \\ 483 + 3 &= 486 \end{aligned}$
Q11)	$\begin{aligned} 2.3\text{kg} - 1.2\text{kg} &= 1.1\text{kg} = 1100\text{g} \\ 30\text{buns} &\rightarrow 1100 - 50 = 1050 \\ 1\text{bun} &\rightarrow 1050 \div 30 = 35\text{g} \end{aligned}$

Q12)	<p>a) $\angle ADB + \angle ABD = 180^\circ - 34^\circ = 146^\circ$ $\angle ADB = 146^\circ \div 2 = 73^\circ$</p> <p>b) $\angle ABC = 180^\circ - 34^\circ - 34^\circ$ $= 112^\circ$ $\angle DBC = 112^\circ - 73^\circ$ $= 39^\circ$</p>															
Q13)	<p>a) $\\$80 + \\$40 + \\$110 + \\$70 + \\$10 = \\310</p> <p>b) $\\$30 \times 3 = 90$ $310 + 90 = \\$400$</p>															
Q14)	<p>a) $\angle AED = 180^\circ - 38^\circ$ $= 142^\circ$ $\angle CDE = (180^\circ - 142^\circ) \div 2$ $= 19^\circ$</p> <p>b) $\angle AEC = 180^\circ - 38^\circ - 73^\circ$ $= 69^\circ$ $\angle ACE = 180^\circ - 69^\circ - 19^\circ$ $= 92^\circ$ $\angle ACB = 180^\circ - 92^\circ$ $= 88^\circ$</p>															
Q15)	<p>$36 - 8 = 28$ $36 \times 4 = 144$ $144 - 108 = 36$ $36 \div 6 = 6$ $6 \times 6 = 36$ $36 \times 4 = 144$ $\frac{1}{2} \times 8 \times 6 = 24$ $24 \times 4 = 96$ $96 + 144 = 240\text{cm}^2$</p>															
Q16)	<p>a)</p> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>2</td><td>6</td><td>12</td><td>20</td><td>30</td></tr></table>	1	2	3	4	5	2	3	4	5	6	2	6	12	20	30
1	2	3	4	5												
2	3	4	5	6												
2	6	12	20	30												
	<p>b) $15 \times 15 = 225$ $15 - 1 = \text{Figure 14}$</p> <p>c) $300 + 1 = 301$ $301 \times 301 = 90601$ $90601 - 301 = 90300$</p>															
Q17)	<p>a) $1u = 24$ $4u = 24 \times 4 = 96$ $96 \times 3 = 288$</p> <p>b) $6u \times 24 \times 3.50 = \\504 $5u \times 24 \times \\$7 = \\840 $22 \times \\$3.50 = \\77 $\\$504 + \\$840 + \\$77 = 1421$</p>															

METHODIST GIRLS' SCHOOL (PRIMARY) EOY PAPER

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 In 6 475 123, which digit is in the hundred thousands place?

- (1) 7
- (2) 6
- (3) 5
- (4) 4

2 $54 - 36 \div 3 \times 4 =$ _____

- (1) 6
- (2) 24
- (3) 51
- (4) 168

3 $10.060\text{ km} =$ _____ m

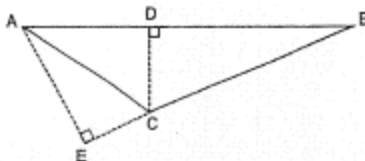
- (1) 106
- (2) 1006
- (3) 10 006
- (4) 10 060



4 Round 199 654 to the nearest 1000.

- (1) 190 000
- (2) 198 000
- (3) 199 000
- (4) 200 000

5 BC is the base of Triangle ABC. Which of the following is the corresponding height of Triangle ABC?



- (1) AC
- (2) AE
- (3) DC
- (4) AB

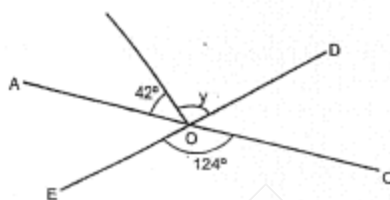
6 Find the value of $\frac{6}{5} \times \frac{1}{3}$.

- (1) $\frac{2}{5}$
- (2) $\frac{3}{4}$
- (3) $\frac{7}{8}$
- (4) $\frac{23}{15}$

7 Which one of the following is closest to 1?

- (1) $\frac{6}{7}$
- (2) $\frac{7}{6}$
- (3) $\frac{8}{9}$
- (4) $\frac{9}{8}$

8 AOC and EOD are straight lines. Find $\angle y$.



- (1) 96°
- (2) 82°
- (3) 69°
- (4) 56°

9 Express 0.053 as a percentage.

- (1) 0.053%
- (2) 0.53%
- (3) 5.3%
- (4) 53%

- 10 Mrs Muthu bought $\frac{3}{4}$ kg of coconut milk. She used $\frac{2}{5}$ of the coconut milk.
How much coconut milk did she have left?

- (1) $\frac{9}{20}$ kg
- (2) $\frac{7}{20}$ kg
- (3) $\frac{7}{10}$ kg
- (4) $\frac{3}{10}$ kg

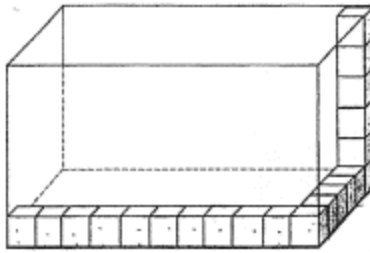
- 11 The ratio of the number of necklaces to the number of bracelets is 7 : 2.
There are 126 necklaces and bracelets altogether. How many more necklaces than bracelets are there?

- (1) 98
- (2) 70
- (3) 18
- (4) 14

- 12 There are 560 performers at the stadium. $\frac{1}{4}$ of them are children. $\frac{1}{5}$ of the adults are women and the rest are men. How many men are there at the stadium?

- (1) 448
- (2) 336
- (3) 308
- (4) 252

- 13 A rectangular glass container is partially filled with 1-cm cubes as shown. What is the capacity of the glass container?



- (1) 275 cm³
 (2) 300 cm³
 (3) 330 cm³
 (4) 396 cm³
- 14 Printer A prints at a rate of 50 pages per minute. Printer B prints at a rate of 40 pages per minute. How long will it take both printers to print a total of 1800 pages?
- (1) 12 min
 (2) 20 min
 (3) 81 min
 (4) 180 min
- 15 A piece of paper in the shape of an equilateral triangle is folded along the dotted line as shown. Find $\angle x$.



- (1) 20°
 (2) 40°
 (3) 140°
 (4) 160°

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 $243 \times 3000 = \underline{\hspace{2cm}}$

Ans:

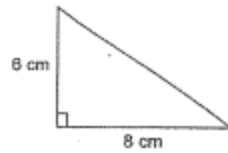
17 Find the value of $(33 + 4 \times 25) - (100 - 30 \div 6)$.

Ans:

18 Mary poured 7160 ml of orange juice equally into 40 glasses. How much juice was there in each glass?

Ans: ml

- 19 Find the area of the triangle.



Ans: _____ cm²

- 20 What is the missing value in the ratio below?

: 8 = 28 : 56

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 The table shows the time taken for Jane to swim 50 m recorded on different days. Study the table and answer the following questions.

Day 1	22.5 s
Day 2	21.8 s
Day 3	24.5 s
Day 4	23.2 s

- (a) On which day did Jane clock the fastest time?

Ans: (a) Day _____

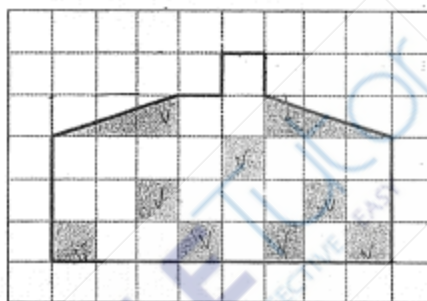
- (b) What was the average time taken for Jane to swim 50 m over the 4 days?

Ans: (b) _____ s

- 22 In Jenny's class, $\frac{1}{3}$ of the pupils come to school by car, 20% of the pupils take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the class takes the MRT to school. What percentage of Jenny's class takes the MRT to school?

Ans: _____ %

- 23 Andy drew a figure in the square grid and shaded some parts. How many more square(s) must be shaded such that $\frac{3}{5}$ of the figure is shaded?

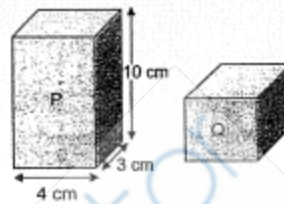


Ans: _____

- 24 Sammy has a plank of wood measuring 2.1 m. He saws it into 2 pieces. One piece is 25 cm longer than the other piece. What is the length of the shorter piece of wood? Give your answer in cm.

Ans: _____ cm

- 25 The volume of cuboid P is 2 times the volume of cuboid Q. Find the volume of cuboid Q.



Ans: _____ cm³

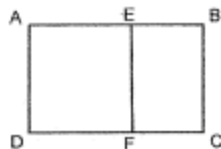
- 26 There are some books on a shelf. $\frac{3}{5}$ of the books are fiction while the rest are non-fiction. $\frac{2}{3}$ of the non-fiction books are in Chinese while the rest are in Malay. There are fewer children's fiction books than adult fiction books.

Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

	True	False	Not possible to tell
(a) There are fewer children's fiction books than Malay non-fiction books.			
(b) The greatest number of books on the shelf are adult fiction books.			

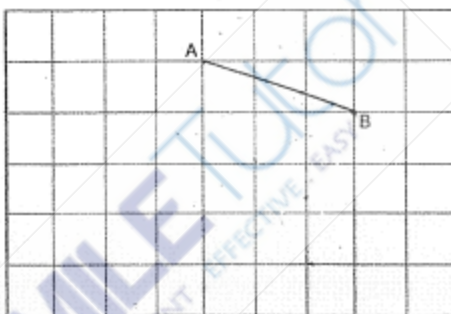


- 27 In the diagram, ABCD is a rectangle and AEFD is a square. The ratio of the AE to EB is 3 : 2. What percentage of rectangle ABCD is shaded?

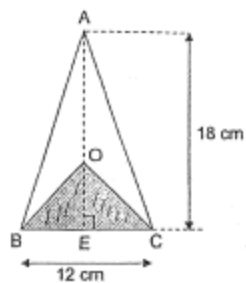


Ans: _____ %

- 28 In the square grid, the line AB has been drawn for you. Draw a right-angled isosceles triangle ABC, where $AB = BC$. Label point C.



- 29 ABC is an isosceles triangle. AO is twice the length of OE.
 AE = 18 cm and BC = 12 cm. Find the area of the unshaded part.



Ans: _____ cm²

- 30 Kumar made a pattern using three different shapes: stars, triangles and circles. The first 18 shapes in the pattern are shown.



There were 46 triangles in the pattern. What was the greatest number of shapes in the pattern?

Ans: _____

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)

- 1 Mailing bought 3500 g of flour. She gave $\frac{1}{2}$ of it to her sister and used 400 g to bake a cake. How much flour had she left?
Give your answer in kg.

Ans: _____ kg

- 2 For every \$4 that Jimmy saved, his father gave him another \$2.50.
How much would Jimmy's father have given him when he had a total of \$157?

Ans: \$ _____

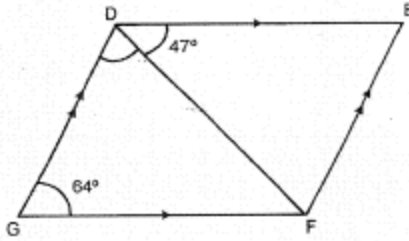
- 3 The perimeter of a rectangular room is 126 m. The ratio of the length of the room to the breadth of the room is 4 : 3. What is the length of the room?

Ans: _____ m

- 4 A rectangular tank measuring 30 cm by 20 cm by 25 cm is $\frac{2}{3}$ - filled with water. How many more litres of water is needed to fill the tank to the brim?

Ans: _____ l

- 5 DEFG is a parallelogram. $\angle EDF = 47^\circ$ and $\angle DGF = 64^\circ$.
Find $\angle GDF$.



Ans: _____°

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. (45 marks)

- 6 There are 150 items in a bag. 48% of the items are pens. The rest of the items are erasers, rulers and 48 pencils. The ratio of the number of erasers to the number of rulers is the same as the ratio of the number of pens to the number of pencils. How many rulers are there in the bag?

Ans: _____ [3]

- 7 Danny had a sum of money. He spent \$315 on a mobile phone and $\frac{3}{5}$ of the remaining money on a headphones. He then had $\frac{1}{10}$ of the sum of money left. How much money did Danny have at first?

Ans: _____ [3]

- 8 On Monday, the number of boys who registered for a contest was three times the number of girls. On Tuesday, another 50 boys registered for the contest while 20 girls withdrew from it. A total of 2454 registrations were confirmed at the end of the two days. How many more boys than girls registered for the contest?

Ans: _____ [3]

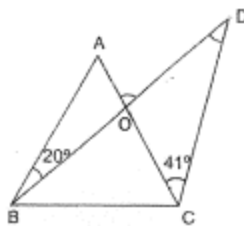
- 9 ABCD is a trapezium. ACD is an isosceles triangle where $AD = DC$. $\angle ABC = 74^\circ$ and $\angle ACB = 86^\circ$. Find $\angle ADC$.



Ans: _____ [3]

- 10 ABC is an equilateral triangle. $\angle ABD = 20^\circ$ and $\angle ACD = 41^\circ$.
BOD is a straight line.

(a) Find $\angle BDC$.

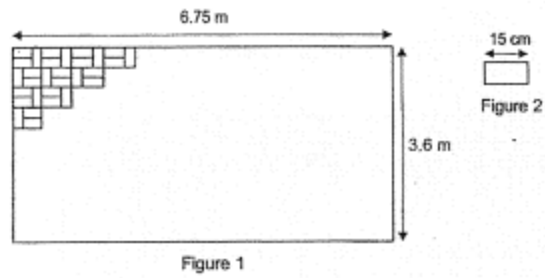


Ans: (a) _____ [2]

(b) Find $\angle AOD$.

Ans: (b) _____ [2]

- 11 Figure 1 shows part of the pattern formed when identical rectangular tiles were used to completely cover a rectangular floor measuring 6.75 m by 3.6 m. Figure 2 shows an example of one such tile. How many rectangular tiles were used altogether?



Ans: _____ [3]

- 12 The table shows the cost of cable car tickets.

Type of Ticket	Weekdays	Weekends & Public Holidays
Adult	\$28	\$32
Child (12 years old and below)	\$20	\$24

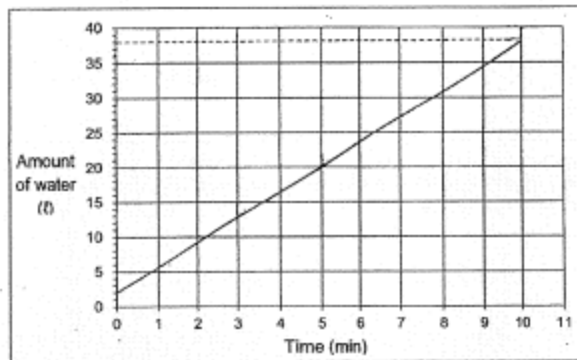
- (a) Mr Tan took a cable car ride with his wife and 2 children last Saturday. His children are 10 years old and 14 years old.
How much did Mr Tan pay for the tickets altogether?

Ans: (a) _____ [2]

- (b) \$2520 was collected from the sale of 104 tickets on Tuesday.
How many child tickets were sold on that Tuesday?

Ans: (b) _____ [3]

- 13 The graph shows the rate at which water is flowing into a tank over 10 minutes.



- (a) How much water was flowing into the tank per minute?

Ans: (a) _____ [1]

- (b) At the end of 10 minutes, the tank was $\frac{4}{5}$ -filled with water.
Find the capacity of the tank.

Ans: (b) _____ [2]

- 14 The table shows the marks obtained by Jane and Susan for 4 subjects.

	Jane	Susan
English	78	90
Mathematics	81	78
Science	87	83
Mother Tongue	79	?
Average Mark	80.5	78

- (a) How many marks did Susan get for Mother Tongue?

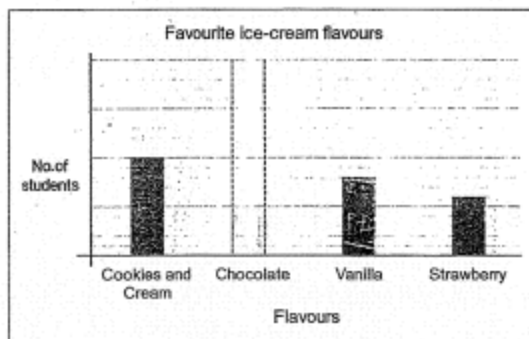
Ans: (a) _____ [2]

- (b) Part of Jane's marks was covered by an ink blot. What was the highest possible mark that she could have gotten for Mathematics?

Ans: (b) _____ [2]

- 15 The table shows the favourite ice-cream flavours of some students.

Ice-cream Flavours	Percentage of students
Cookies and Cream	25%
Chocolate	40%
Vanilla	20%
Strawberry	15%



- (a) Based on the table, draw in the bar to represent the percentage of students who like chocolate. [1]

CHILDREN'S DAY PROMOTION!!!



1 tub: \$12.50

Buy 5 tubs, get 1 tub free!

(Price does not include 7% GST)

- (b) Ms Ong wants to buy 13 tubs of ice-cream for her class. Based on the Children's Day promotion above, what is the least amount of money she needs to pay for the ice-cream including GST? Round your answer to the nearest dollar.

Ans: (b) _____ [3]

- 16 Samuel has a collection of toy vehicles. $\frac{1}{3}$ of them are motorcycles.
 $\frac{3}{5}$ of his remaining collection are trucks and the rest are cars.
 $\frac{1}{4}$ of the cars are red and the rest are blue.

(a) Samuel has 12 red cars. How many toy trucks does he have?

Ans: (a) _____ [1]

(b) What fraction of Samuel's collection are blue cars?

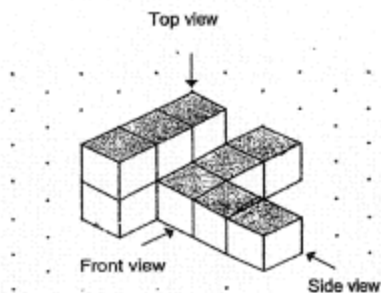
Ans: (b) _____ [1]

- (c) Samuel's mother gave him some more motorcycles, such that $\frac{5}{8}$ of his collection are now motorcycles. How many motorcycles did Samuel's mother give him?

Ans: (c) _____

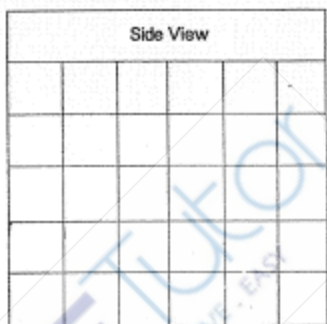
[3]

- 17 The solid shown is made up of 1-cm cubes.

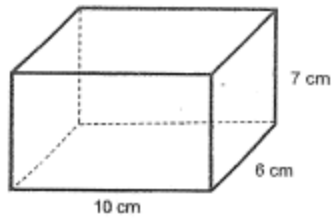


- (a) Draw the side view in the square grid.

[1]



Michael placed the solid into an open rectangular box.



- (b) How many more 1-cm cubes must Michael put into the box to fill it up completely?

Ans: (b) _____ [2]

- (c) How many cubes touch the inside of the box when it is completely filled?

Ans: (c) _____ [2]

END OF PAPER

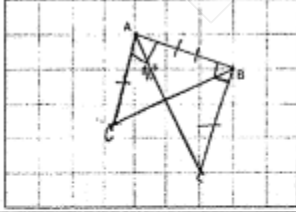
ANSWER SHEET

PAPER 1 (BOOKLET A)

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

(BOOKLET B)

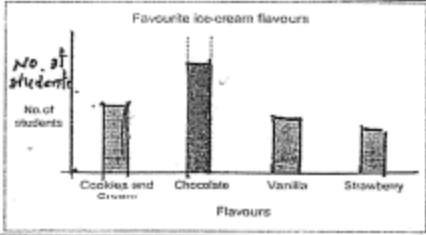
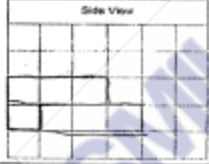
Q16	729 000
Q17	$(33 + 4 \times 25) - (100 - 30 \div 6)$ $= (33 + 100) - (100 - 30 \div 6)$ $= 38$
Q18	$7160 \div 40 = 179\text{ml}$
Q19	$\frac{1}{2} \times 6 \times 8 = 24\text{cm}^2$
Q20	$56 \div 8 = 7$ $28 \div 7 = 4$
Q21	a) Day 2 b) $22.5 + 21.8 + 24.5 + 23.2$ $= 92.0\text{s}$
Q22	$\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ $= \frac{1}{2}$ Ans : 30%
Q23	$\frac{1}{3} = \frac{5}{15} = \frac{10}{30}$ $\frac{2}{3} = \frac{18}{27}$ $\frac{1}{5} = \frac{6}{30}$ $18 - 10 = 8$
Q24	$210 - 25 = 185$ $185 \div 2 = 92.5\text{cm}$
Q25	$4 \times 3 \times 10 = 120$ $120 \div 2 = 60\text{cm}^3$
Q26	a) Not possible to tell ✓ b) True ✓
Q27	$\frac{2}{5} \times 100\% = 40\%$

Q28	
Q29	$\frac{1}{2} \times 12 \times 18 = 108$ $\frac{1}{2} \times 12 \times 6 = 36$ $108 - 36 = 72\text{cm}^2$
Q30	$46 \div 3 = 15\text{R}1$ $6 \times 15 = 90$ $90 + 3 = 93$

PAPER 2

Q1	$\frac{1}{2} \times 3500 = 1750$ $1750 - 400 = 1350$ 1.35kg
Q2	$4 + \$2.50 = \6.50 $\$157 \div \$6.50 = 24\frac{2}{13}$ $24 \times \$6.50 = \156 $\$157 - \$156 = \$1$ $24 \times 2.50 = \$60$
Q3	$14u : 126$ $1u : 9$ $4u : 36m$
Q4	$\frac{2}{3} \times 30 \times 20 \times 25 = 10\,000$ $30 \times 20 \times 25 = 15\,000$ $15\,000 - 10\,000 = 5000$ 5 litre
Q5	$64 + 47 = 111$ $180 - 111 = 69^\circ$
Q6	Pens : Pencils $72 : 48$ $3 : 2$ $E : R$ $3 : 2$ $\text{Pens} : 48\% \times 150 = 72$ $150 - 72 - 48 = 30$ $E + R = 30$ $5u : 30$ $1u : 6$ $2u : 12$
Q7	$\frac{1}{10} : 2u$ $1u : \frac{1}{20}$ $R : \frac{1}{4} \text{ of original}$ $\frac{3}{4} : 315$ $\frac{4}{4} : \$420$

Q8	$2454 - 50 = 2404$ $2404 + 20 = 2424$ $2424 \div 4 = 606$ $1818 + 50 = 1868$ $606 - 20 = 586$ $1868 - 586 = 1282$
Q9	$74 + 86 = 160$ $180 - 160 = 20$ $180 - 20 - 20 = 140^\circ$
Q10	a) $60 - 20 = 40$ $20 + 60 = 80$ $180 - 80 = 100$ $41 + 60 = 101$ $101 + 40 = 141$ $180 - 141 = 39^\circ$ b) 80°
Q11	$15 \div 2 = 7.5$ $15 \times 7.5 = 112.5$ $6.75\text{m} : 675\text{cm}$ $3.6\text{m} : 360\text{cm}$ $675 \times 360 = 243\,000$ $243\,000 \div 112.5 = 2160\text{cm}^2$
Q12	a) $32 \times 3 = 96$ $96 + 24 = \$120$ b) Suppose all are adult $\text{Total} : 28 \times 104 = 2912$ $\text{Extra} : 2912 - 2520 = 392$ $\text{Diff} : 28 - 20 = 8$ $\text{Opposite} : 392 \div 8 = 49$
Q13	a) $38 - 2 = 36$ $36 \div 10 = 3.6\%$ b) $\frac{4}{100} : 38$ $100 : 9.5$ $9.5 \times 5 = 47.5\%$
Q14	a) $78 \times 4 = 312$ $312 - 90 - 83 - 78$ $= 61$ b) $80.5 \times 4 = 322$ $322 - 78 - 79 = 165$ $\text{Sci} : \text{lowest possible}$ $165 - 80 = 85$

Q15	<p>a) </p> <p>b) 1 set : 6 tubs (\$62.50) 2 sets : 12 tubs (\$125) $125 + 12.50 = 137.50$ $107\% \times 137.50 = 147.125$ $\approx \\$147.00$</p>
Q16	<p>a) $12 \times 4 = 48$ $12 \times 3 = 36$ $48 \div 2 = 24$ $24 \times 3 = 72$</p> <p>b) $\frac{2}{5} + \frac{2}{3} = \frac{4}{15}$ $\frac{3}{4} \times \frac{4}{15} = \frac{3}{15}$ $\frac{3}{15} = \frac{1}{5}$</p> <p>c) Car : $12 \times 4 = 48$ trucks : 72 Cart trucks : $72 + 48 = 120$ ($\frac{3}{8}$ of total) $\frac{1}{8}$ of total : $120 \div 3 = 40$ $\frac{5}{8}$ of total : $40 \times 5 = 200$ MG : $200 - 60 = 140$</p>
Q17	<p>a) </p> <p>b) $10 \times 6 \times 7 = 420$ $420 - 11 = 409$</p> <p>c) $10 \times 7 = 70$ $70 \times 2 = 140$ $(6-2) \times 7 = 28$ $28 \times 2 = 56$ $4 \times 8 = 31$ $140 + 32 + 56 = 228$</p>

NAN HUA PRIMARY SCHOOL EOY PAPER

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

1 In 527.196, which digit is in the hundredths place?

- (1) 1
- (2) 5
- (3) 6
- (4) 9

2 Find the value of $3 + 4 \times 12 - 8$.

- (1) 19
- (2) 28
- (3) 43
- (4) 76

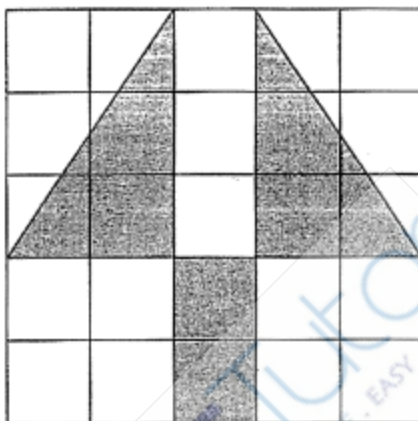
3 200 students went to a concert. 120 of the students are male. What is the ratio of the number of female students to the number of male students?

- (1) 2 : 3
- (2) 2 : 5
- (3) 3 : 2
- (4) 5 : 3

4 Find the value of 0.015×4000 .

- (1) 0.6
- (2) 6
- (3) 60
- (4) 600

5 A picture is drawn on a square grid.



What percentage of the square grid is **not** shaded?

- (1) 8%
- (2) 17%
- (3) 32%
- (4) 68%

- 6 Bala receives a weekly allowance of \$60. He saves \$12 each week. What percentage of Bala's allowance did he spend?
- (1) 12%
- (2) 20%
- (3) 48%
- (4) 80%
- 7 Mr Tan drove for 4h 35min and reached Malacca at 02 45. What time did Mr Tan start driving?
- (1) 6.20 a.m.
- (2) 6.20 p.m.
- (3) 10.10 a.m.
- (4) 10.10 p.m.
- 8 The table below shows the rate for printing T-shirts at a printing shop.

Quantity	Charge
First 20 T-shirts	\$10 each
Every additional T-shirt	\$8 each

The Book Club printed 50 T-shirts for their 50 members. How much did the club pay for the T-shirts?

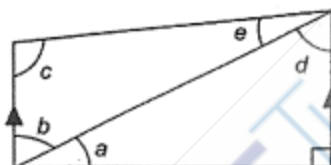
- (1) \$250
- (2) \$400
- (3) \$440
- (4) \$500

- 9 The table below shows the number of mistakes some children made in a test.

All	Ben	Calli	Dorothy	Enwel	Faridah
0	4	2	0	3	3

What is the average number of mistakes made by the children in the test?

- (1) 6
 (2) 2
 (3) 3
 (4) 12
- 10 Which statement about the figure below is true?



- (1) $\angle c = 90^\circ$
 (2) $\angle a = \angle e$
 (3) $\angle c + \angle d + \angle e = 180^\circ$
 (4) $\angle a + \angle b + \angle c = 180^\circ$

- 11** Which figure below has the most number of lines of symmetry?



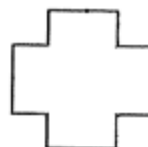
(1)



(2)



(3)



(4)

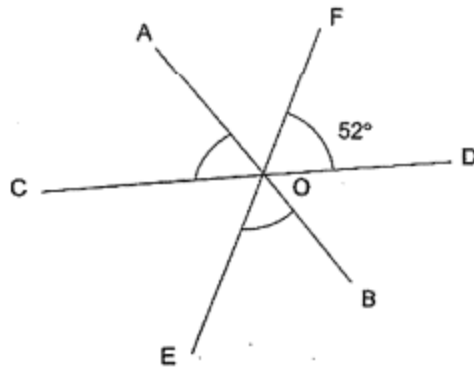
- 12** Mrs Ng is 45 years old. She is 5 times the age of her son. What is the ratio of Mrs Ng's age to their total age 3 years later?

- (1) 4 : 5
- (2) 5 : 6
- (3) 6 : 7
- (4) 9 : 10

- 13** Aini bought a blouse at \$24 and a skirt that cost twice as much. The amount of money she had left was \$50 when rounded to the nearest \$10. What was the possible amount of money she had at first?

- (1) \$86
- (2) \$90
- (3) \$116
- (4) \$126

- 14 In the figure below, AOB, COD and EOF are straight lines. $\angle FOD = 52^\circ$.
Find $\angle AOC + \angle BOE$.



- (1) 52°
 (2) 104°
 (3) 128°
 (4) 180°
- 15 Ken started saving some pocket money on Monday. Each day, he saved \$0.30 more than the day before. He saved a total of \$15.50 from Monday to Friday. How much did he save on Tuesday?
- (1) \$2.50
 (2) \$2.80
 (3) \$3.10
 (4) \$3.40

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 $\frac{6}{8} = \frac{\boxed{}}{12}$

What is the missing number in the box?

Ans : _____

17 Find the value of $\frac{3}{4} - \frac{1}{8}$.

Ans : _____

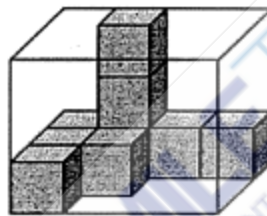
- 18 Susan's mass is 24 kg. Susan's mass is 8 kg less than Karen's mass. Find the ratio of Karen's mass to Susan's mass. Give your answer in its simplest form.

Ans : _____

- 19 At a sale, Mr Samy wanted to buy a television set that cost \$1300 before discount. He was given a 20% discount. How much did Mr Samy have to pay for the television set?

Ans : \$ _____

- 20 The box below is filled with some 1-cm cubes. What is the volume of the box?



Ans : _____ cm³

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For question which require units, give your answers in the units stated. (20 marks)

- 21 (a) Arrange these numbers in decreasing order.

14 827, 17 482, 14 278

Ans : (a) _____ , _____ , _____

- (b) Round 39 506 to the nearest thousand.

Ans : (b) _____

- 22 (a) A 5 m rope is cut into 9 equal pieces. What is the length of each piece?

Ans : (a) _____ m

- (b) Express 3006 cm in metres.

Ans : (b) _____ m

- 23 (a) Multiply. Express your answer as a fraction in its simplest form.

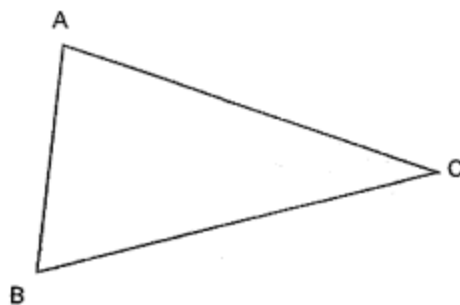
$$\frac{5}{9} \times \frac{3}{10}$$

Ans : (a) _____

- (b) Express $\frac{1}{6}$ as a decimal correct to 2 decimal places.

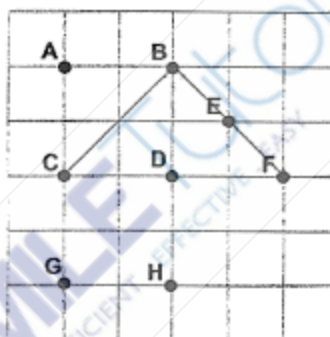
Ans : (b) _____

- 24 (a) Measure and write down the size of $\angle ABC$.



Ans : (a) _____°

The square grid shows the positions of points A, B, C, D, E, F, G and H.



- (b) Aini was standing at one of the points facing F. When she turned 90° clockwise, she ended up facing point C. At which point was Aini standing at?

Ans : (b) _____

- 25 The table below shows the number of buns sold by a baker on the different days of a week. Some of the data is missing. Fill in the missing data with the information given.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
52	60	43	(a)	65	(b)	72

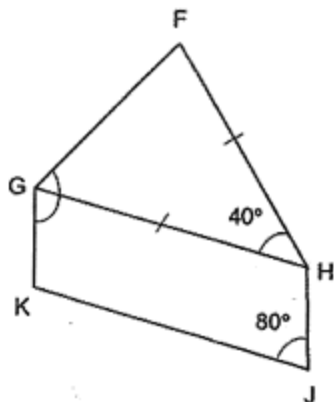
- (a) The baker sold a total of 267 buns from Monday to Friday. How many buns did he sell on Thursday?

Ans : (a) _____

- (b) The average number of buns sold on Saturday and Sunday is 70 buns. How many buns were sold on Saturday?

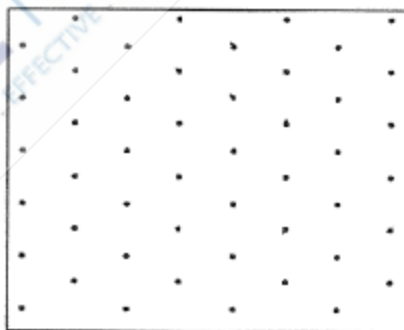
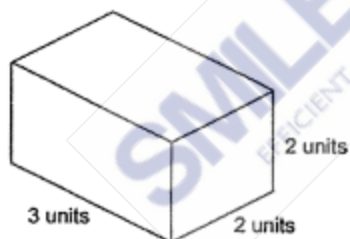
Ans : (b) _____

- 26 GHJK is a parallelogram and FGH is an isosceles triangle. $\angle FHG = 40^\circ$ and $\angle HJK = 80^\circ$. Find $\angle FGK$.

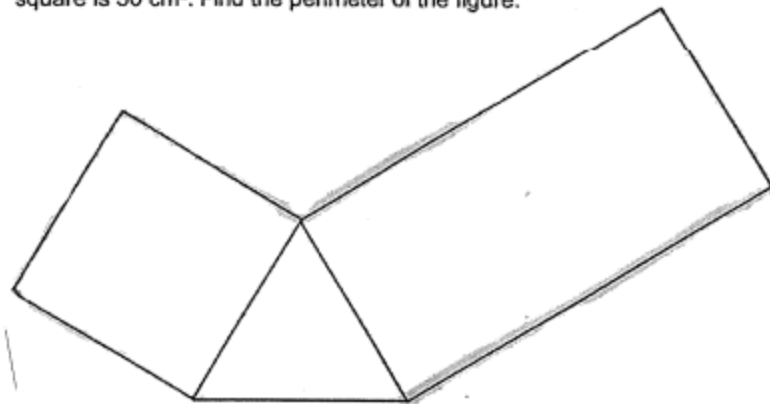


Ans : _____°

- 27 Draw a cuboid that has half the volume of the cuboid shown on the isometric grid.



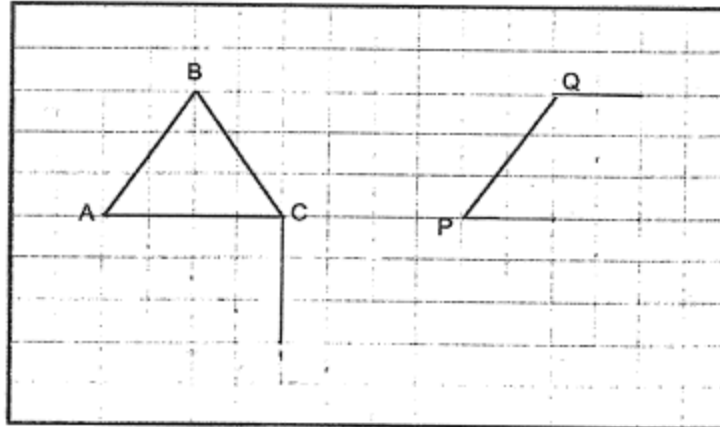
- 28 The figure below is made up of an equilateral triangle, a square and a rectangle. The length of the rectangle is twice its breadth. The area of the square is 36 cm^2 . Find the perimeter of the figure.



Ans : _____ cm

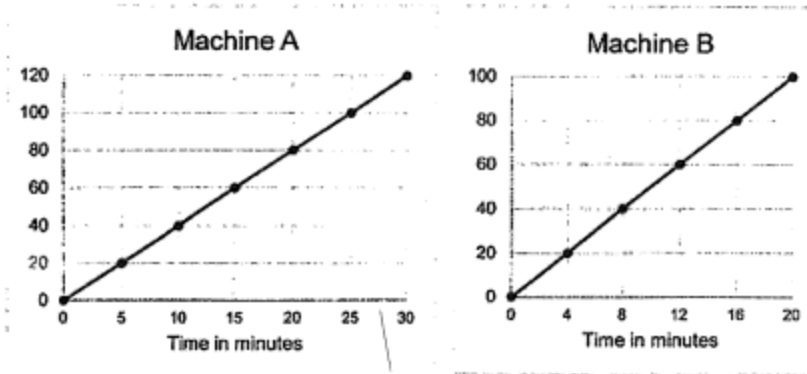
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29 A triangle ABC is drawn on the square grid.



- (a) Using the line PQ, draw a parallelogram PQRS such that it has the same perimeter as triangle ABC.
- (b) Draw a triangle ADC such that triangle ADC has the same area as triangle ABC and $\angle ACD = 90^\circ$.
Triangle ADC does not overlap triangle ABC.

- 30 The graphs below show the total number of bottles Machines A and B filled from the start. Both machines started working at the same time.



- (a) How many more bottles did Machine B fill than Machine A in 10 minutes?

Ans : (a) _____

- (b) How long will it take for both machines to fill 180 bottles together?

Ans : (b) _____ min

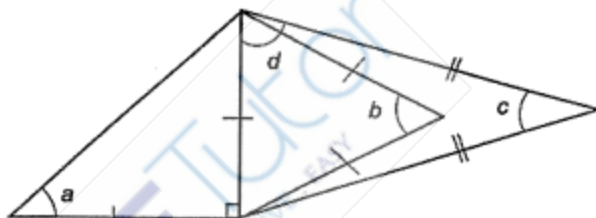
End of Paper

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

- 1 What is the sum of all the common factors of 16 and 36?

Ans: _____

- 2 The figure below is made up of 3 triangles.



Each of the statements below is either true, false or impossible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
$\angle a + \angle b + \angle c$ is less than 180° .			
$\angle a + \angle b + \angle d$ is more than 180° .			

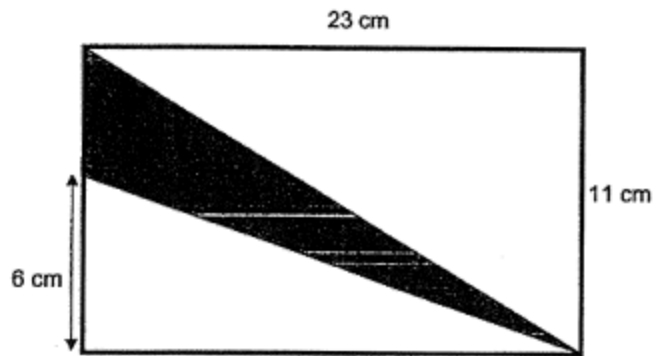
- 3 Joseph spent $\frac{1}{4}$ of his money on a pair of shoes and $\frac{1}{2}$ of the remainder on a basketball. He was left with \$84. How much did he spend on the two items?

Ans: \$ _____

- 4 At a party, there were 24 adults. There were 15 more boys than adults. The number of girls was twice the number of adults. Find the ratio of the number of girls to the number of boys to the number of adults in the simplest form.

Ans: _____

5 Find the area of the shaded part.



Ans: _____ cm²

For questions 6 to 17, 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. (45 marks)

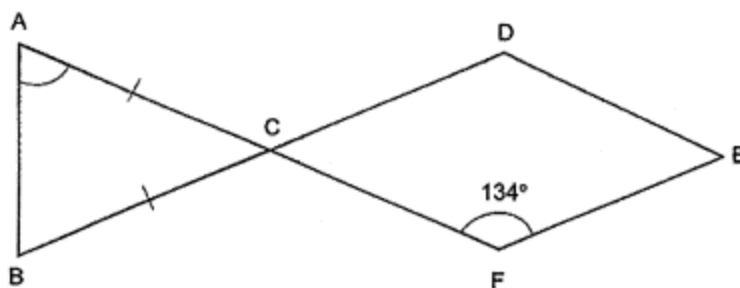
- 6 A group of boys had an average of 130 game cards. Another boy with 210 game cards joined the group and the average number of game cards became 150. How many boys were there in the group at first?

Ans: _____ [3]

- 7 Mrs Rani borrows \$72 000 from the bank to buy a car. The bank charges 2.8% interest per year. How much interest does Mrs Rani have to pay each month?

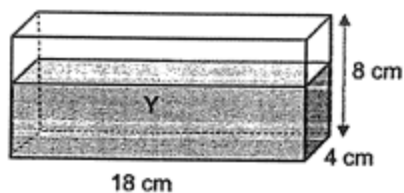
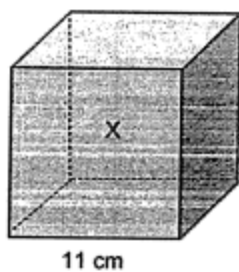
Ans: _____ [3]

- 8 In the figure below, ABC is an isosceles triangle and CDEF is a rhombus.
AC = BC and $\angle CFE = 134^\circ$. Find $\angle BAC$.



Ans: _____ [3]

- 9 Container X is a cubical tank of edge 11 cm. It was completely filled with water. The water was then poured into Container Y until it was $\frac{3}{4}$ full.



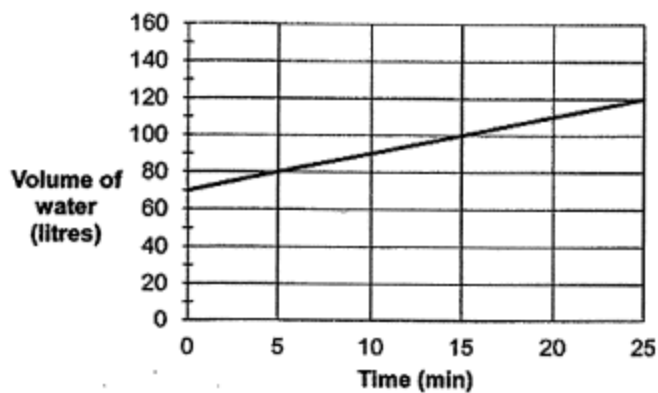
- (a) How much water was there in Container Y?

Ans : (a) _____ [1]

- (b) How much water was left in Container X?

Ans: (b) _____ [2]

- 10** At first, a tank was half-filled with water. A tap was turned on for 25 minutes for more water to flow into the tank. It was then turned off. The line graph shows the volume of water in the tank over 25 minutes.



- (a) How many litres of water flowed into the tank in one minute?

Ans : (a) _____ [1]

- (b) How many more minutes must the tap be turned on to fill the tank to its brim?

Ans: (b) _____ [2]

- 11 In a Mathematics quiz, there were a total of 40 questions. Participants were awarded 4 marks for each correct answer, 1 mark for each question left blank and deducted 2 marks for each wrong answer. Emily left 7 questions blank and scored a total of 103 marks for the quiz. How many questions did she answer correctly.



Ans: _____ [4]

- 12 Jack had \$9.60 less than Jill at first. After Jill gave some of her money to Jack, he had \$30 more than her. Jack's money became 4 times of Jill's money.

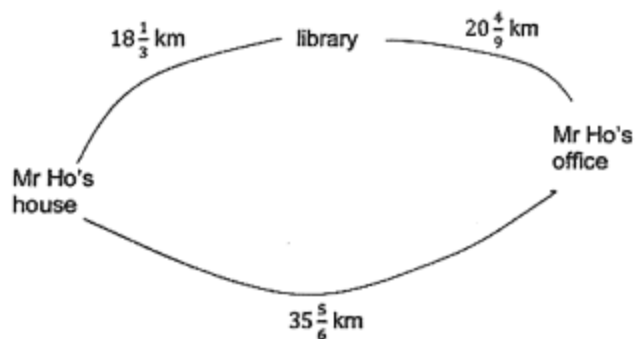
(a) How much money did they have in all?

Ans: (a) _____ [1]

(b) How much money did Jill give Jack?

Ans: (b) _____ [3]

- 13** The picture below shows the distance between Mr Ho's house, the library and his office.



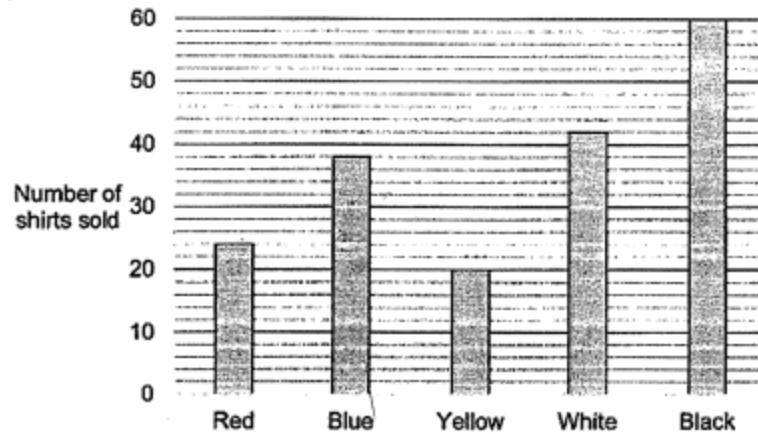
- (a)** What is the total distance Mr Ho travels to his office and back home on days that he does not go to the library?

Ans (a) : _____ [2]

- (b)** On Fridays, Mr Ho stops over at the library on his way home. How much longer does he need to travel on Fridays?

Ans (b) : _____ [2]

- 14 The bar graph below shows the different coloured shirts sold by a shop in a day.



- (a) What fraction of the shirts sold were black?
Leave your answer as the simplest form.

Ans : (a) _____ [2]

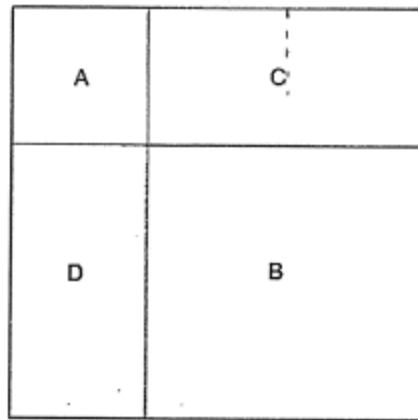
The table shows the price of the shirts for each colour.

Colour of shirt	Price
Red	\$10
Blue	\$10
Yellow	\$10
White	\$5
Black	\$6

- (b) How much did the shop collect from the sale of all the shirts?

Ans : (b) _____ [2]

- 15 The figure below shows a square being divided into two smaller squares, A and B and two rectangles, C and D.



The area of B is 4 times the area of A. The perimeter of D is 62 cm longer than the perimeter of A.

- (a) Find the perimeter of square A.

Ans : (a) _____ [2]

- (b) Find the total area of the figure.

Ans : (b) _____ [2]

- 16** Kumar and Larry were paid a total of \$3860 for a job they did. Kumar was paid \$2030 more than Larry.

(a) How much was Larry paid for the job?

Ans : (a) _____ [1]

- (b) Kumar and Larry were paid based on the number of days they worked. Kumar worked 3 times as many days as Larry. Kumar was paid \$5 more than Larry per day. How many days did Kumar work?

Ans : (b) _____ [4]

- 17 Kaiwen spent $\frac{1}{2}$ of her money on 6 cupcakes and 6 cookies. The price of a cookie is $\frac{1}{3}$ the price of a cupcake. She bought some more cookies with $\frac{2}{3}$ of her remaining money. How many cookies did she buy altogether?



Ans: _____ [5]

End of Paper

ANSWER SHEET

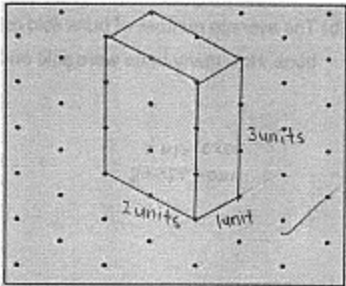
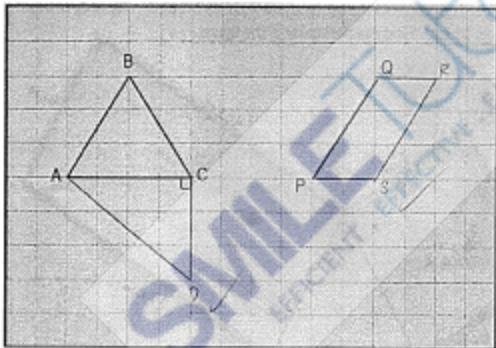
PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	1	3	4	4	4	3	2	3

Q 11	Q12	Q13	Q14	Q15
2	1	4	3	2

PAPER 1 BOOKLET B

Q16)	9
Q17)	$\frac{5}{8}$
Q18)	4 : 3
Q19)	$\$1300 \times 0.20 = \260 $\$1300 - \$260 = \$1040$
Q20)	$3 \times 4 \times 3 = 36\text{cm}^3$
Q21)	a) 17482, 14827, 14278 b) 40000
Q22)	a) $\frac{5}{9}\text{m}$ b) $3006 \div 100 = 30.06\text{m}$
Q23)	a) $\frac{1}{6}$ b) 0.17
Q24)	a) 70° b) B
Q25)	a) $267 - 52 - 60 - 43 - 65 = 267 - 220$ $= 47$

	b) $70 \times 2 = 140$ $140 - 72 = 68$
Q26)	$180^\circ - 40^\circ = 140^\circ$ $140^\circ \div 2 = 70^\circ$ $70^\circ + 80^\circ = 150^\circ$
Q27)	$3 \times 2 \times 2 = 12$ $12 \div 2 = 6$ 
Q28)	$6\text{cm} + 6\text{cm} + 6\text{cm} + 6\text{cm} + 12\text{cm} + 6\text{cm} + 12\text{cm} = 30\text{cm} + 24\text{cm}$ $= 54\text{cm}$
Q29)	
Q30)	a) $20 \div 4 = 5$ $10 \times 5 = 50$ $50 - 40 = 10$ b) A: $20 \div 5 = 4$ B: $20 \div 4 = 5$ Total: $4 + 5 = 9$ bottles in 1 min $180 \div 9 = 20\text{min}$

PAPER 2

Q1)	16: ①, ②, ④, 8 36: ①, ②, 3, ④, 6, 9 $1 + 2 + 4 = 7$						
Q2)	<table border="1"><tr><td>$\sqrt{\quad}$</td><td></td><td></td></tr><tr><td></td><td></td><td>$\sqrt{\quad}$</td></tr></table>	$\sqrt{\quad}$					$\sqrt{\quad}$
$\sqrt{\quad}$							
		$\sqrt{\quad}$					
Q3)	$1.5u = \$84$ $1u = \$56$ $1u + 1.5u = 2.5u$ $2.5u = \$56 \times 2.5$ $= \$140$						
Q4)	$16 : 13 : 8$						
Q5)	Total Area: $23 \times 11 = 253$ Part 1: $\frac{23 \times 11}{2} = 126.5$ Part 2: $(6 \times 23) \div 2 = 69$ Part 3: $253 - 126.5 - 69 = 57.5\text{cm}^2$						
Q6)	$130X + 210 = 150(X + 1)$ $130X + 210 = 150X + 150$ $20X = 60$ $X = 3$						
Q7)	$\$72000 \times 2.8\% = \2016 $\$2016 \div 12 = \168						
Q8)	$360^\circ - 134^\circ = 92^\circ$ $92^\circ \div 2 = 46^\circ$ $\angle DCF$ is opposite angles to $\angle ACB$ $180^\circ - 46^\circ = 134^\circ$ $134^\circ \div 2 = 67^\circ$						
Q9)	a) $18 \times 4 \times 8 = 576$ $576 \times \frac{3}{4} = 432\text{cm}^3$ b) $11 \times 11 \times 11 = 1331$ $1331 - 432 = 899\text{ml}$						

Q10)	a) $80\ell - 70\ell = 10\ell$ $10\ell \div 5 = 2\ell$ b) $70 \times 2 = 140$ $140 - 120 = 20$ $20 \div 2 = 10\text{minutes}$
Q11)	$7 \times 1 = 7$ $103 - 7 = 96$ $40 - 7 = 33$ Assume she scored all the 33 questions correctly $33 \times 4 = 132$ $4 \rightarrow -2$ Diff: $4 + 2 = 6$ $132 - 96 = 36$ $36 \div 6 = 6$ $33 - 6 = 27$ questions
Q12)	a) $3u = \$30$ $1u = \$10$ $5u = \$50$ b) $4u = \$10 \times 4 = \40 $\$40 - \$20.20 = \$19.80$
Q13)	a) $35\frac{5}{6}\text{km} + 35\frac{5}{6}\text{km} = 71\frac{2}{3}\text{km}$ b) $74\frac{11}{18} - 71\frac{2}{3} = 74\frac{11}{18} - 71\frac{12}{18} = 2\frac{17}{18}\text{km}$
Q14)	a) $24 + 38 + 20 + 42 + 60 = 184$ $\frac{60}{184} = \frac{30}{92} = \frac{15}{46}$ b) $24 \times \$10 + 38 \times \$10 + 20 \times \$10 + 42 \times \$5 + 60 \times \$6 = \1390
Q15)	a) Assume on side of square A as X: $X + 2X = X + X + 31$ $3X = 2X + 31$ $X = 31$ $31 \times 4 = 124\text{cm}$ b) $2X + 1X = 3X$ $3X = 31 \times 3 = 93$ $93 \times 93 = 8649\text{cm}^2$
Q16)	a) $\$3850 - \$2030 = \$1820$ $\$1820 \div 2 = \910

	<p>b) L: 1u days = \$910 K: 3u days = \$910 + \$2030 = \$2940 1u days = \$2940 ÷ 3 = \$980 * Diff K - Lin 1u days = \$980 - \$910 = \$70 1u = \$70 / 5 = 15 K worked 3u days = 3 x 14 = 42 days</p>
Q17	<p> $1 - \frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} \times \frac{2}{3} = \frac{1}{3}$ </p> <p> Assume she had X dollars at first 6 cupcakes + 6 cookies = $\frac{1}{2} X$ - (1) 3 cookies = 1 cupcake - (2) (2) × 2 : 6 cookies = 2 cupcakes - (2)' Sub (2)' into (1) 6 cupcakes + 2 cupcakes = $\frac{1}{2} X$ 8 cupcakes = $\frac{1}{2} X$ 1 cupcake = $\frac{1}{16} X$ Sub this into (2): 3 cookies = $\frac{1}{16} X$ 1 cookies = $\frac{1}{48} X$ $\frac{1}{3} \div \frac{1}{48} = 16$ 16 + 6 = 22 </p>

NANYANG PRIMARY SCHOOL EOY PAPER

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

1 In 742.896, which digit is in the hundredths place?

(1) 6

(2) 7

(3) 8

(4) 9

2 Which of the following is the same as 20 ml?

(1) 2 l

(2) 0.2 l

(3) 0.02 l

(4) 0.002 l

- 3 There are 30 chocolate cookies, 18 raisin cookies and 48 butter cookies. What is the ratio of the number of chocolate cookies to the number of raisin cookies to the number of butter cookies?

- (1) 5 : 3 : 8
- (2) 3 : 5 : 8
- (3) 5 : 3 : 6
- (4) 6 : 3 : 8

- 4 Sindri worked for 30 hours. He was paid \$600. How much was he paid per hour?

- (1) \$5
- (2) \$2
- (3) \$20
- (4) \$50

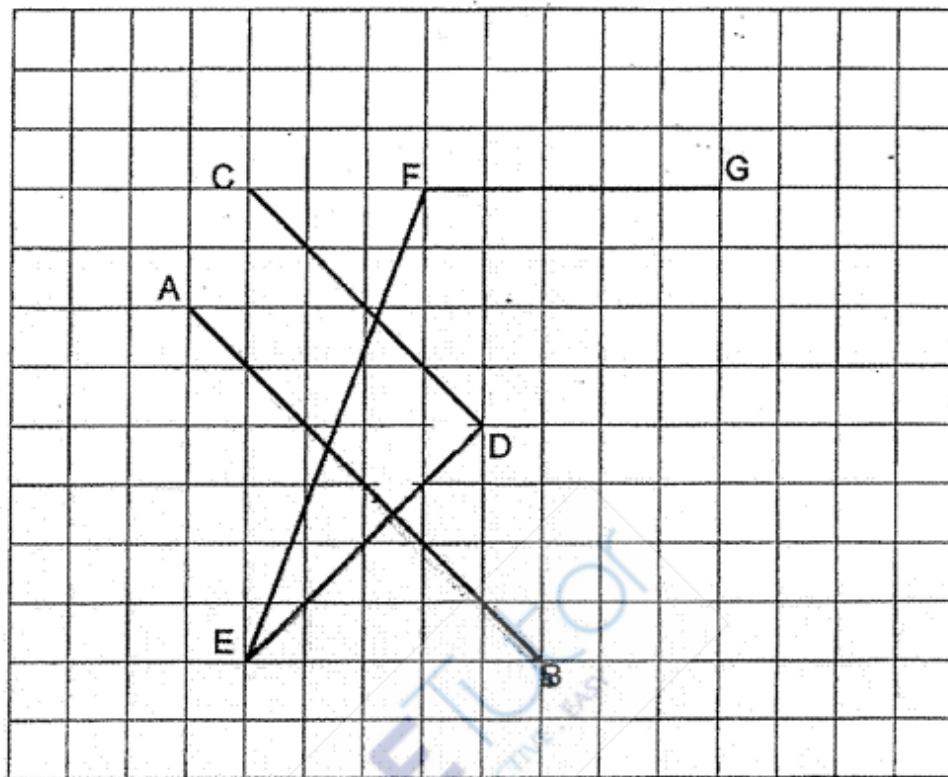
5 Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?

- (1) 20%
- (2) 25%
- (3) 80%
- (4) 125%

6 There were 960 people in a concert. 60% of them were adults. How many adults were there at the concert?

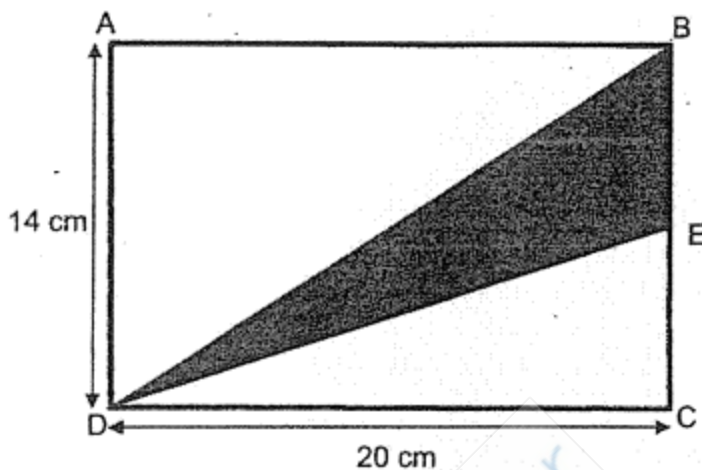
- (1) 384
- (2) 576
- (3) 588
- (4) 768

7 Which line in the square grid is perpendicular to AB?



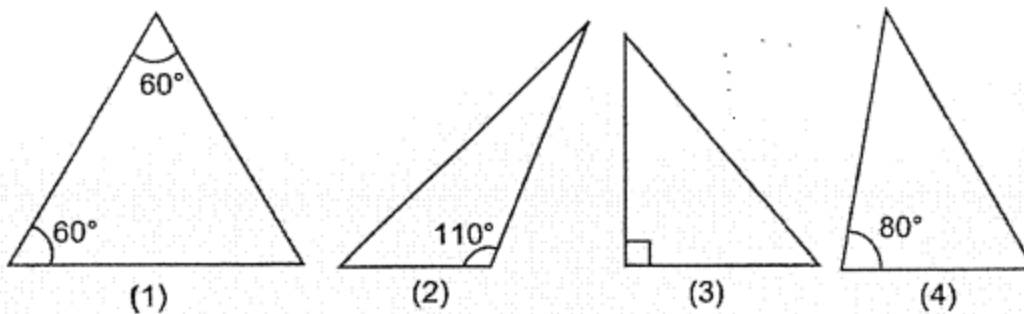
- (1) DE
- (2) EF
- (3) CD
- (4) FG

- 8 In the figure below, ABCD is a rectangle. E is a point on BC. BE is half the length of BC, DC = 20 cm and AD = 14 cm. Find the area of triangle BDE.

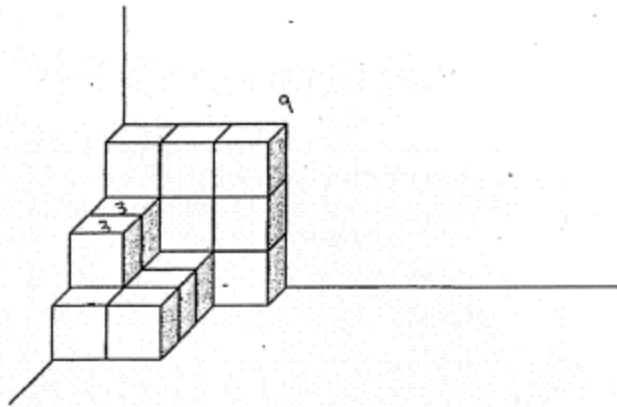


- (1) 35 cm^2
 (2) 70 cm^2
 (3) 140 cm^2
 (4) 280 cm^2

- 9 Which of the following triangles is an equilateral triangle?



- 10 The solid below is formed by unit cubes. How many unit cubes are there?



- (1) 12
(2) 17
(3) 18
(4) 26
- 11 Which one of the following fractions is closest to 2?

- (1) $2\frac{2}{3}$
(2) $2\frac{1}{4}$
(3) $1\frac{1}{6}$
(4) $1\frac{7}{8}$

- 12 Jasmine scored an average of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks did she score for the Science test?

- (1) 66
- (2) 69
- (3) 72
- (4) 138

- 13 Mandy had 408 l of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?

- (1) 1.02
- (2) 1.2
- (3) 10.2
- (4) 12

- 14 Noah bought $\frac{7}{8}$ kg of grapes. He ate $\frac{1}{3}$ of it. How many kilograms of grapes had he left?

(1) $\frac{5}{12}$

(2) $\frac{7}{12}$

(3) $\frac{7}{24}$

(4) $\frac{13}{24}$

- 15 Mrs Tan cooks 0.35 kg of rice every day. How many kilograms of rice does she cook in 60 days?

(1) 2.1

(2) 3.5

(3) 18

(4) 21

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 Find the value of $14 + (30 - 18) \div 6 \times 2$.

Ans: _____

17 Find the value of $923 \div 4$. Express your answer as a decimal.

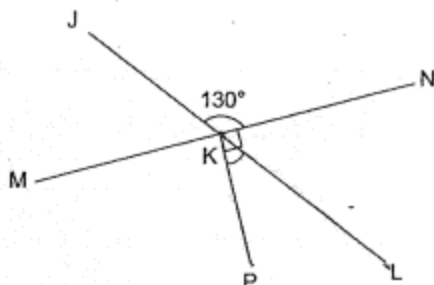
Ans: _____

18 What is the missing number in the box?

$$4 : 7 = 32 : \boxed{}$$

Ans: _____

- 19 In the figure below, JKL and MKN are straight lines. $\angle NKP = 90^\circ$ and $\angle JKN = 130^\circ$. Find $\angle PKL$.



Ans: _____°

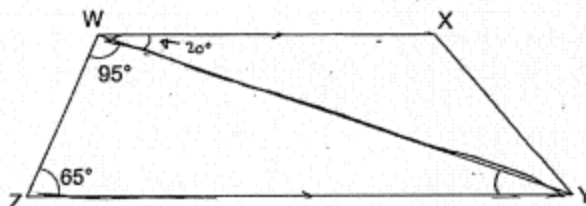
- 20 In the figure below, QRS is a triangle. $\angle QSR = 10^\circ$ and $\angle QRS = 25^\circ$. Find $\angle SQR$.



Ans: _____°

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 In the figure below, $WXYZ$ is a trapezium. $WX \parallel ZY$, $\angle ZWY = 95^\circ$ and $\angle WZY = 65^\circ$. Find $\angle YWX$.

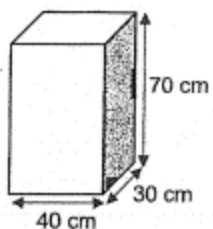


Ans: _____°

- 22 Mrs Tan had some money at first. She spent $\frac{2}{3}$ of her money on a watch and $\frac{1}{5}$ of her money on food. She had \$100 left. How much did she have at first?

Ans: \$ _____

- 23 What is the volume of the cuboid shown below?



Ans: _____ cm^3

- 24 Find the average cost of the 3 items as shown below.



\$36



\$29.50



\$42.50

Ans: \$ _____

- 25 The mass of a book is 3.08 kg. Find the total mass of 6 such books.

Ans: _____ kg

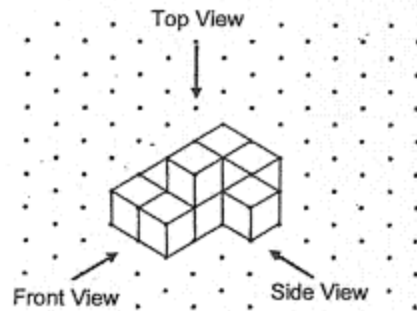
- 26 The drink stall sold 2651 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.

Ans: _____

- 27 Mrs Singh deposits \$15 000 in the bank for one year. The bank offers an interest of 4% per year. How much will Mrs Singh have in her bank at the end of one year?


Ans: \$ _____

- 28 Nana stacked 10 unit cubes and glued them together to form the solid below.

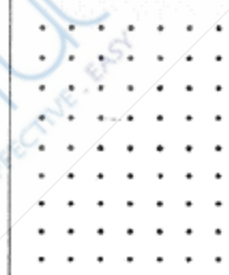


Draw the top view and the side view of the solid on the grids below.

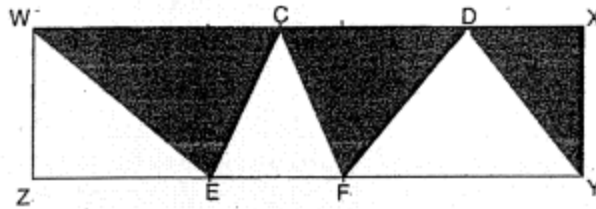
Top View



Side View



- 29 In the figure below, $WXYZ$ is a rectangle. The area of rectangle $WXYZ$ is 552 cm^2 . C and D are points on WX . E and F are points on ZY . Find the total area of the shaded parts.



Ans: _____ cm^2

- 30 The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's mass was 53 kg. The average mass of her cousins was 43 kg. How many cousins did Mei Mei have?

Ans: _____

End of Paper

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)

- 1 Sarah spent $1\frac{1}{4}$ h in the morning to complete her Science project.
She spent $1\frac{7}{10}$ h in the afternoon to complete her Chinese project.
What was the total amount of time she spent on completing both her Science and Chinese projects?

Ans: _____ h

- 2 The side of a square is $6\frac{2}{5}$ cm. What is the perimeter of the square?

Ans: _____ cm

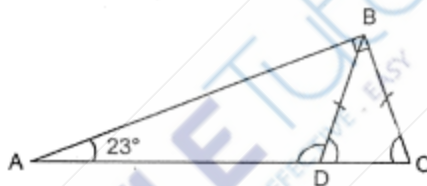
- 3 The table below shows the number of books sold in Everygreen bookshop from January to May.

January	February	March	April	May
88	75	82	69	71

What was the average number of books sold from January to May?

Ans: _____

- 4 In the figure below, ABC is a right-angled triangle. D is a point on AC. $\angle BAC = 23^\circ$, $\angle ABC = 90^\circ$ and $BC = BD$. Find $\angle BDA$.



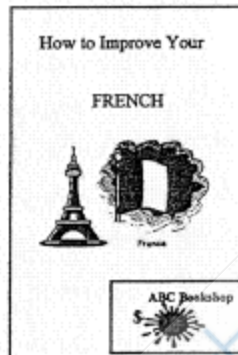
Ans: _____°

- 5 Junie bought a book from ABC Bookshop. She had forgotten how much she paid for the book. However, she remembered that the book cost \$30 when rounded to the nearest dollar.

She remembered the following about the cost of the book:

- It showed 2 decimal places.
- All the digits are different.
- The digits she saw in the tenths and hundredths places are 1, 4 or 5.

How many possible costs of the book are there?




Ans: _____

For questions 6 to 17, 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. (45 marks)

- 6 Anna and James had the same amount of money at first. Anna bought some pens and had \$4.30 left. James wanted to buy highlighters only. The number of highlighters that James wanted to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anna have at first?

Ans: _____ [3]

- 7 The Art Museum offers tickets on discount as shown in the flyer below.



ART MUSEUM
TICKET SALE
Usual price: \$16 per ticket

Buy 1 ticket at 10% discount

Buy 2 or more tickets at 20% discount

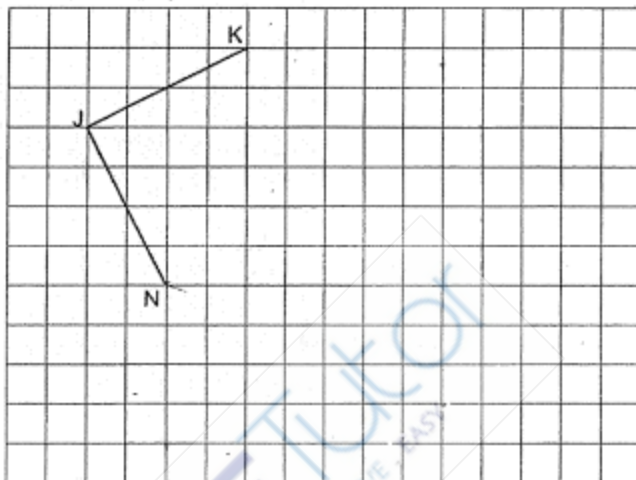
- (a) Mr Lim bought 1 ticket. How much did he pay?

Ans: (a) _____ [1]

- (b) Mr Tan bought 3 tickets. What was the least amount of money he paid?

Ans: (b) _____ [2]

- 8 In the square grid below, JK and JN are straight lines.
- (a) JK and JN form two sides of a square JKLN. Complete the drawing of the square JKLN. [1]
- (b) JK and JN form two sides of a trapezium JKMN. KM is parallel to JN. Complete the drawing of trapezium JKMN such that the area of JKMN is $1\frac{1}{2}$ times of the area of JKLN. [2]



- 9 Chin Lee is 12 years older than Ming Shi. In 5 years' time, the ratio of Ming Shi's age to Chin Lee's age will be 5 : 9. How old is Chin Lee now?

Ans: _____ [3]

- 10 The average of 8 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 6.

(a) Find the sum of the remaining numbers.

Ans: (a) _____ [1]

(b) What are the 2 numbers that are removed?

Ans: (b) _____ , _____ [2]

- 11 Farhana baked some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold $\frac{4}{7}$ of the chocolate cupcakes and 51 banana cupcakes. She then had $\frac{2}{5}$ of the cupcakes left.

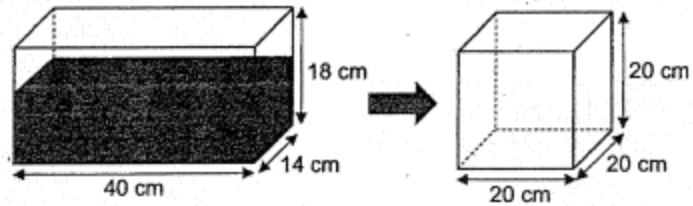
(a) How many chocolate cupcakes did she sell?

Ans: (a) _____ [2]

(b) How many cupcakes did she bake in all?

Ans: (b) _____ [2]

- 12 A tank measuring 40 cm by 14 cm by 18 cm was $\frac{3}{4}$ -filled with water as shown below. All the water in the tank was poured into a cubical container of sides 20 cm.



- (a) How much water was in the tank at first?

Ans: (a) _____ [2]

- (b) How many more litres of water are needed to fill the cubical container to the brim?

(b) _____ [2]

- 13 Kean Yew had 7200 shuttlecocks. He packed the shuttlecocks into as many bags of 7 shuttlecocks as possible and had some shuttlecocks left unpacked. He sold all his shuttlecocks and received \$3608. Each bag of shuttlecocks was sold at \$3.50.

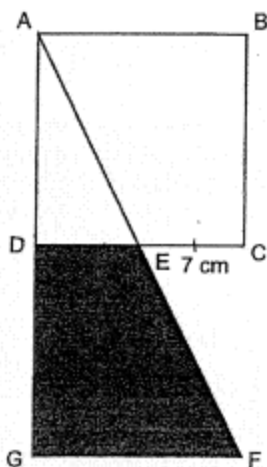
(a) How many shuttlecocks were left unpacked?

Ans: (a) _____ [1]

- (b) Each of the shuttlecocks left unpacked was sold at the same price. How much did each of the shuttlecocks left unpacked was sold at?

Ans: (b) _____ [3]

- 14 The figure below shows a right-angled triangle AFG and a square ABCD overlapping each other. ADG is a straight line. $\angle AGF = 90^\circ$, $DC = GF$ and $EC = 7$ cm. The length of AB is twice the length of EC. Triangle AFG has the same area as square ABCD.



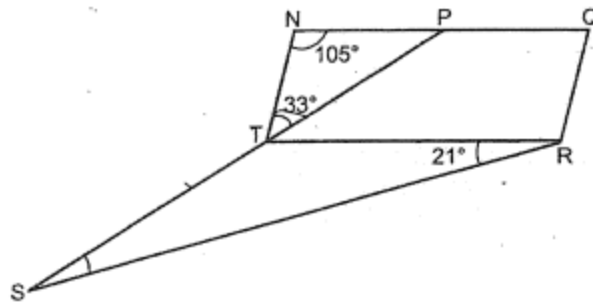
- (a) What is the area of square ABCD?

Ans: (a) _____ [2]

- (b) Find the shaded area DEFG.

Ans: (b) _____ [2]

- 15 In the figure below, NQRT is a parallelogram. P is a point on NQ and PTS is a straight line. $\angle NTP = 33^\circ$, $\angle PNT = 105^\circ$ and $\angle TRS = 21^\circ$.



- (a) Find $\angle RST$.

Ans: (a) _____ [3]

- (b) Circle the words that describe triangle RTS correctly in the following statement.

Triangle RTS (is / is not) an isosceles triangle because RT (is / is not) equal to ST.

[1]

- 16 Cindy had a piece of ribbon. She used $\frac{2}{7}$ of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.

(a) How many large bows can she make with the same length of ribbon used for 15 small bows?

Ans: (a) _____ [1]

(b) How many small bows can she make with $\frac{3}{10}$ of the remaining ribbon?

Ans: (b) _____ [4]

17 Hon Lee formed some figures using squares and circles as shown below.

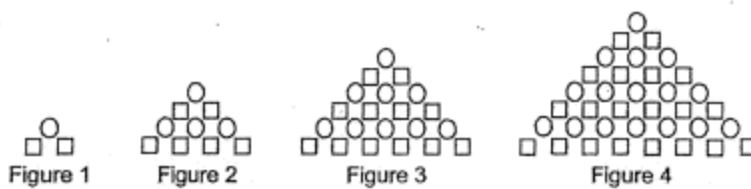


Figure	1	2	3	4
Number of circles	1	4	9	16
Number of squares	2	6	12	20
Total number of circles and squares	3	10	21	36

(a) Find the number of circles in Figure 8.

Ans: (a) _____ [1]

(b) Which figure in the pattern has 930 squares?

(b) Figure _____ [2] .

(c) Find the total number of circles and squares in Figure 15.



(c) _____ [2]

End of Paper

ANSWER SHEET

Temple Primary School

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

P5 2022
End of Year
SA2
Paper 1

1 In 742.896, which digit is in the hundredths place?

- (1) 6
(2) 7
(3) 8
(4) 9

→ second decimal place

(4)

2 Which of the following is the same as 20 ml?

- (1) 2 l
(2) 0.2 l
(3) 0.02 l
(4) 0.002 l

$$1 \text{ l} = 1000 \text{ ml}$$

$$20 \text{ ml} = (20 \div 1000) \text{ l}$$

$$= 0.02 \text{ l}$$

(3)

3 There are 30 chocolate cookies, 18 raisin cookies and 48 butter cookies. What is the ratio of the number of chocolate cookies to the number of raisin cookies to the number of butter cookies?

chocolate : raisin : butter

- (1) 5:3:8
(2) 3:5:8
(3) 5:3:8
(4) 8:3:8

$$30 : 18 : 48$$

$$5 : 3 : 8$$

(1)

4 Sindri worked for 30 hours. He was paid \$600. How much was he paid per hour?

- (1) \$5
(2) \$2
(3) \$20
(4) \$50

$$\$600 \div 30 = \$600 \div 10 \div 3$$

$$= \$60 \div 3$$

$$= \$20$$

(3)

5 Shahul had \$2500. He spent \$2000. What percentage of his money did he spend?

- (1) 20%
(2) 25%
(3) 80%
(4) 125%

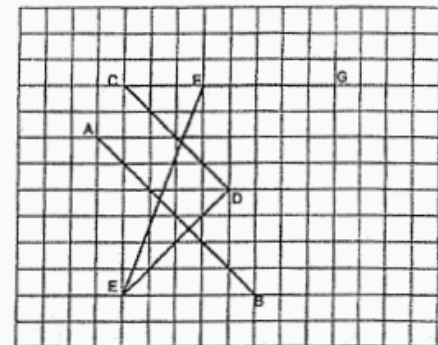
$$\frac{2000}{2500} = \frac{20}{25}$$

$$= \frac{80}{100}$$

$$= 80\%$$

(3)

7 Which line in the square grid is perpendicular to AB?



- (1) DE
(2) EF
(3) CD
(4) FG

(1)

6 There were 960 people in a concert. 60% of them were adults. How many adults were there at the concert?

- (1) 384
(2) 576
(3) 588
(4) 768

$$100\% \rightarrow 960$$

$$1\% \rightarrow 960 \div 100$$

$$= 9.6$$

$$60\% \rightarrow 9.6 \times 60$$

$$= 9.6 \times 10 \times 6$$

$$= 96 \times 6$$

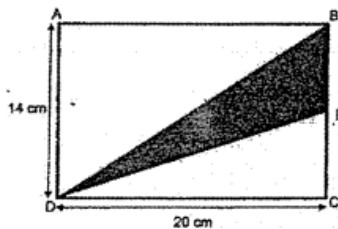
$$= 576$$

(2)

$$\begin{array}{r} 96 \\ \times 6 \\ \hline 576 \end{array}$$

P51

- 8 In the figure below, ABCD is a rectangle. E is a point on BC. BE is half the length of BC, DC = 20 cm and AD = 14 cm. Find the area of triangle BDE.

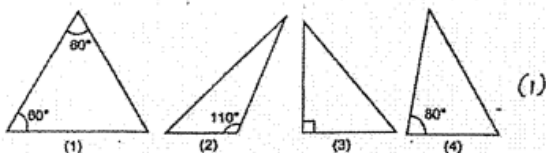


- (1) 35 cm²
(2) 70 cm²
(3) 140 cm²
(4) 280 cm²

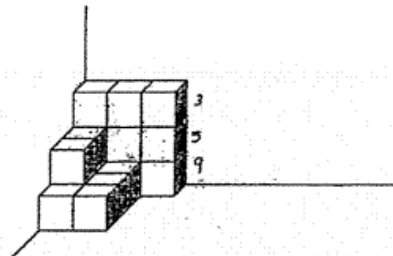
$$\text{Length of } BE = 14 \div 2 = 7$$

$$\begin{aligned} \text{Area of } \triangle BDE &= \frac{1}{2} \times 20 \times 7 \\ &= 10 \times 7 \\ &= 70 \quad (2) \end{aligned}$$

- 9 Which of the following triangles is an equilateral triangle?



- 10 The solid below is formed by unit cubes. How many unit cubes are there?



- (1) 12
(2) 17
(3) 18
(4) 26

$$9 + 3 + 5 = 17$$

(2)

- 11 Which one of the following fractions is closest to 27

- (1) $2\frac{2}{3}$ difference $\rightarrow \frac{2}{3}$
(2) $2\frac{1}{4}$ difference $\rightarrow \frac{1}{4}$
(3) $1\frac{1}{6}$ difference $\rightarrow \frac{5}{6}$
(4) $1\frac{7}{8}$ difference $\rightarrow \frac{1}{8}$

(4)

- 12 Jasmine scored an average of 70 marks for a Mathematics test and a Science test. She scored 68 marks for the Mathematics test. How many marks did she score for the Science test?

- (1) 68
(2) 69
(3) 72
(4) 138

$$\begin{aligned} \text{Total} &\rightarrow 70 \times 2 \\ &= 140 \\ 140 - 68 &= 72 \\ (3) \end{aligned}$$

- 13 Mandy had 408 l of milk. She poured all the milk into 400 bottles. Each bottle contained the same amount of milk. How many litres of milk did each bottle contain?

- (1) 1.02
(2) 1.2
(3) 10.2
(4) 12

$$\begin{aligned} 408 \div 400 &= 408 \div 4 \div 100 \\ &= 102 \div 100 \\ &= 1.02 \\ (1) \end{aligned}$$

- 14 Noah bought $\frac{7}{8}$ kg of grapes. He ate $\frac{1}{3}$ of it. How many kilograms of grapes had he left?

- (1) $\frac{5}{12}$
(2) $\frac{7}{12}$
(3) $\frac{7}{24}$
(4) $\frac{13}{24}$

$$\begin{aligned} 1 - \frac{1}{3} &= \frac{2}{3} \\ \text{Left} &\rightarrow \frac{7}{8} \times \frac{2}{3} \\ &= \frac{14}{24} \\ &= \frac{7}{12} \\ (2) \end{aligned}$$

- 15 Mrs Tan cooks 0.35 kg of rice every day. How many kilograms of rice does she cook in 60 days?

- (1) 2.1
(2) 3.5
(3) 18
(4) 21

$$\begin{aligned} 0.35 \times 60 &= 0.35 \times 10 \times 6 \\ &= 3.5 \times 6 \\ &= 21 \\ (4) \end{aligned}$$

$$\begin{array}{r} 3.5 \\ \times 6 \\ \hline 21.0 \end{array}$$

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

- 16 Find the value of $14 + (30 - 18) \div 6 \times 2$.

$$\begin{aligned}
 &14 + 12 \div 6 \times 2 \\
 &= 14 + 2 \times 2 \\
 &= 14 + 4 \\
 &= 18 \text{ (ans)} \quad \text{Ans: } \underline{18}
 \end{aligned}$$

- 17 Find the value of $923 \div 4$. Express your answer as a decimal.

$$\begin{array}{r}
 230.75 \\
 4 \overline{) 923.00} \\
 \underline{-8} \\
 12 \\
 \underline{-12} \\
 03 \\
 \underline{-0} \\
 30 \\
 \underline{-28} \\
 20 \\
 \underline{-20} \\
 0
 \end{array}$$

Ans: $\underline{230.75}$

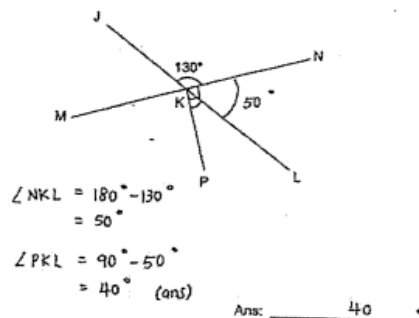
- 18 What is the missing number in the box?

$$4 \div 7 = 32 \div \square$$

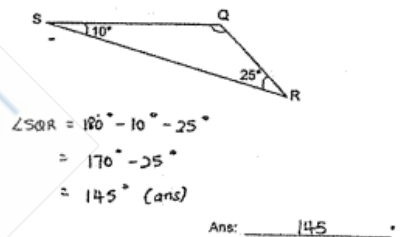
$$\begin{aligned}
 32 \div 4 &= 8 \\
 7 \times 8 &= 56 \text{ (ans)}
 \end{aligned}$$

Ans: $\underline{56}$

- 19 In the figure below, JKL and MKN are straight lines. $\angle NKP = 90^\circ$ and $\angle JKN = 130^\circ$. Find $\angle PKL$.

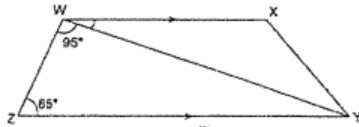


- 20 In the figure below, QRS is a triangle. $\angle QSR = 10^\circ$ and $\angle QRS = 25^\circ$. Find $\angle SQR$.



Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 In the figure below, $WXYZ$ is a trapezium. $WX \parallel ZY$, $\angle ZWY = 95^\circ$ and $\angle WZY = 65^\circ$. Find $\angle YWX$.



$$\begin{aligned} 95^\circ + 65^\circ &= 160^\circ \\ \angle YWX &= 180^\circ - 160^\circ \\ &= 20^\circ \text{ (ans)} \end{aligned}$$

Ans: 20

- 22 Mrs Tan had some money at first. She spent $\frac{2}{3}$ of her money on a watch and $\frac{1}{5}$ of her money on food. She had \$100 left. How much did she have at first?

$$\begin{aligned} 1 - \frac{2}{3} - \frac{1}{5} &= 1 - \frac{10}{15} - \frac{3}{15} \\ &= \frac{2}{15} \\ \frac{2}{15} &\rightarrow \$100 \\ \frac{1}{15} &\rightarrow \$100 \div 2 \\ &= \$50 \end{aligned}$$

Ans: \$ 750

- 25 The mass of a book is 3.08 kg. Find the total mass of 6 such books.

$$\begin{array}{r} 3.08 \\ \times 6 \\ \hline 18.48 \end{array}$$

$$3.08 \times 6 = 18.48 \text{ (ans)}$$

Ans: 18.48 kg

- 26 The drink stall sold 2651 packet drinks in January. The number of packet drinks sold in February was 44 more than the number of packet drinks sold in January. How many packet drinks were sold in February? Round your answer to the nearest ten.

$$\begin{aligned} 2651 + 44 &= 2695 \\ &\approx 2700 \text{ (ans)} \end{aligned}$$

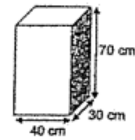
Ans: 2700

- 27 Mrs Singh deposits \$15 000 in the bank for one year. The bank offers an interest of 4% per year. How much will Mrs Singh have in her bank at the end of one year?

$$\begin{aligned} 100\% &\rightarrow \$15\,000 \\ 1\% &\rightarrow \$15\,000 \div 100 \\ &= \$150 \\ 4\% &\rightarrow \$150 \times 4 \\ &= \$600 \\ \$600 + \$15\,000 &= \$15\,600 \text{ (ans)} \end{aligned}$$

Ans: \$ 15 600

- 23 What is the volume of the cuboid shown below?



$$\begin{aligned} 40 \times 30 \times 70 &= 1200 \times 70 \\ &= 84\,000 \text{ cm}^3 \text{ (ans)} \end{aligned}$$

Ans: 84 000 cm³

- 24 Find the average cost of the 3 items as shown below.



\$38



\$29.50



\$42.50

$$\begin{aligned} \text{Total} &\rightarrow \$38 + \$29.50 + \$42.50 \\ &= \$108 \end{aligned}$$

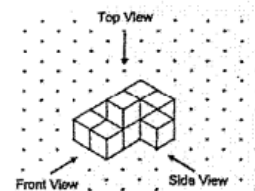
$$\$108 \div 3 = \$36 \text{ (ans)}$$

Ans: \$ 36

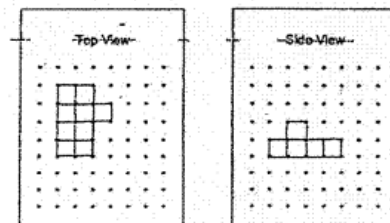
$$\begin{array}{r} 38 \\ + 29.50 \\ + 42.50 \\ \hline 108.00 \end{array}$$

$$\begin{array}{r} 36 \\ \times 3 \\ \hline 108 \end{array}$$

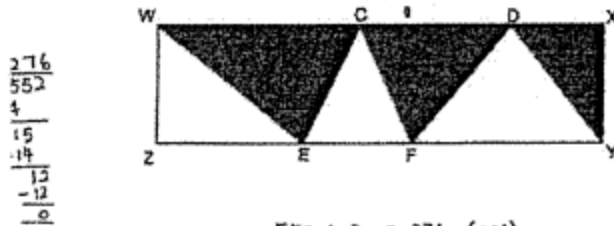
- 28 Nana stacked 10 unit cubes and glued them together to form the solid below.



Draw the top view and the side view of the solid on the grids below.



- 29 In the figure below, WXYZ is a rectangle. The area of rectangle WXYZ is 552 cm^2 . C and D are points on WX. E and F are points on ZY. Find the total area of the shaded parts.



$$552 \div 2 = 276 \text{ (ans)}$$

Ans: 276 cm^2

- 30 The average mass of Mei Mei and her cousins was 45 kg. Mei Mei's mass was 53 kg. The average mass of her cousins was 43 kg. How many cousins did Mei Mei have?

$$53 - 45 = 8$$

$$45 - 43 = 2$$

$$8 \div 2 = 4 \text{ (ans)}$$

Ans: 4

End of Paper

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)

- 1 Sarah spent $1\frac{1}{4}$ h in the morning to complete her Science project. She spent $1\frac{7}{10}$ h in the afternoon to complete her Chinese project. What was the total amount of time she spent on completing both her Science and Chinese projects?

$$1\frac{1}{4} + 1\frac{7}{10} = 2\frac{19}{20} \text{ (ans)}$$

Ans: $2\frac{19}{20}$ h

- 2 The side of a square is $6\frac{2}{5}$ cm. What is the perimeter of the square?

$$(6\frac{2}{5}) \times 4 = 25\frac{3}{5} \text{ (ans)}$$

Ans: $25\frac{3}{5}$ cm

PS 2022

SA 2

Paper 2

- 3 The table below shows the number of books sold in Everygreen bookshop from January to May.

January	February	March	April	May
88	75	82	69	71

What was the average number of books sold from January to May?

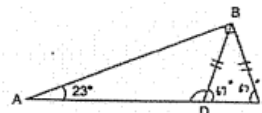
$$\text{Total} \rightarrow 88 + 75 + 82 + 69 + 71$$

$$= 385$$

$$385 \div 5 = 77 \text{ (ans)}$$

Ans: 77

- 4 In the figure below, ABC is a right-angled triangle. D is a point on AC. $\angle BAC = 23^\circ$, $\angle ABC = 90^\circ$ and $BC = BD$. Find $\angle BDA$.



$$\angle ACB = 180^\circ - 90^\circ - 23^\circ$$

$$= 67^\circ$$

$$= \angle BDC$$

$$\angle BDA = 180^\circ - 67^\circ$$

$$= 113^\circ \text{ (ans)}$$

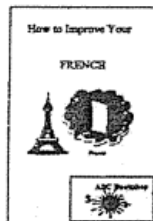
Ans: 113

- 5 Julie bought a book from ABC Bookshop. She had forgotten how much she paid for the book. However, she remembered that the book cost \$30 when rounded to the nearest dollar.

She remembered the following about the cost of the book:

- It showed 2 decimal places.
- All the digits are different.
- The digits she saw in the tenths and hundredths places are 1, 4 or 5.

How many possible costs of the book are there?



$\$29.51 \approx \30
 $\$29.54 \approx \30
 $\$30.14 \approx \30
 $\$30.15 \approx \30
 $\$30.41 \approx \30
 $\$30.45 \approx \30

Ans: 6

3

For questions 5 to 17, 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. (45 marks)

- 6 Anna and James had the same amount of money at first. Anna bought some pens and had \$4.30 left. James wanted to buy highlighters only. The number of highlighters that James wanted to buy was the same as the number of pens Anna bought. However, he was short of \$8.70. Each pen cost \$1.20 and each highlighter cost \$2.50. How much money did Anna have at first?

$$\$4.30 + \$8.70 = \$13$$

↳ difference between
the cost of highlighters
and pens

$$\$2.50 - \$1.20 = \$1.30$$

↳ difference between 1
highlighter and 1 pen

$$\$13 \div \$1.30 = 10$$

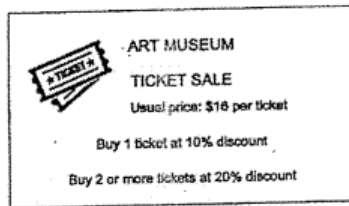
$$\$1.20 \times 10 = \$12$$

$$\$12 + \$4.30 = \$16.30 \text{ (ans)}$$

Ans: \$16.30 [3]

pg 5

- 7 The Art Museum offers tickets on discount as shown in the flyer below.



- (a) Mr Lim bought 1 ticket. How much did he pay?

$$100 - 10 = 90$$

$$\frac{90}{100} \times \$16 = \$14.40 \text{ (ans)}$$

Ans: (a) \$14.40 [1]

- (b) Mr Tan bought 3 tickets. What was the least amount of money he paid?

$$100 - 20 = 80$$

$$\frac{80}{100} \times \$16 = \$12.80$$

$$\$12.80 \times 3 = \$38.40 \text{ (ans)}$$

Ans: (b) \$38.40 [2]

- 10 The average of 8 numbers is 45. When 2 of the numbers are removed, the average of the remaining numbers is 32. The difference between the 2 numbers that are removed is 8.

- (a) Find the sum of the remaining numbers.

$$8 - 2 = 6$$

$$32 \times 6 = 192 \text{ (ans)}$$

Ans: (a) 192 [1]

- (b) What are the 2 numbers that are removed?

$$45 \times 8 = 360$$

$$360 - 192 = 168 \rightarrow \text{sum of the 2 numbers removed}$$

$$168 - 6 = 162$$

$$162 \div 2 = 81 \text{ (ans)}$$

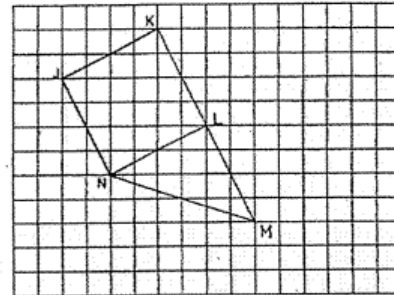
$$81 + 6 = 87 \text{ (ans)}$$

Ans: (b) 81, 87 [2]

- 8 In the square grid below, JK and JN are straight lines.

- (a) JK and JN form two sides of a square JKLN. Complete the drawing of the square JKLN. [1]

- (b) JK and JN form two sides of a trapezium JKMN. KM is parallel to JN. Complete the drawing of trapezium JKMN such that the area of JKMN is $1\frac{1}{2}$ times of the area of JKLN. [2]



- 9 Chin Lee is 12 years older than Ming Shi. In 5 years' time, the ratio of Ming Shi's age to Chin Lee's age will be 8 : 9. How old is Chin Lee now?

$$9 - 5 = 4$$

$$4 \text{ units} = 12$$

$$1 \text{ unit} = 12 \div 4$$

$$= 3$$

$$9 \text{ units} = 3 \times 9$$

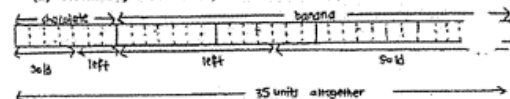
$$= 27$$

$$27 - 5 = 22 \text{ (ans)}$$

Ans: 22 [3]

- 11 Farhana baked some cupcakes. $\frac{1}{5}$ of the cupcakes were chocolate cupcakes and the rest were banana cupcakes. She sold $\frac{4}{7}$ of the chocolate cupcakes and 51 banana cupcakes. She then had $\frac{2}{5}$ of the cupcakes left.

- (a) How many chocolate cupcakes did she sell?



$$\frac{2}{5} = \frac{14}{35} \rightarrow \text{total left}$$

$$14 - 3 = 11 \rightarrow \text{bananas left}$$

$$7 \times 4 = 28$$

$$28 - 11 = 17$$

$$17 \text{ units} = 51$$

$$1 \text{ unit} = 51 \div 17$$

$$= 3$$

$$4 \text{ units} = 3 \times 4$$

$$= 12 \text{ (ans)}$$

Ans: (a) 12 [2]

- (b) How many cupcakes did she bake in all?

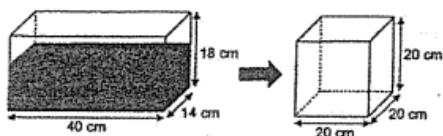
$$7 \times 5 = 35$$

$$35 \text{ units} = 3 \times 35$$

$$= 105 \text{ (ans)}$$

Ans: (b) 105 [2]

- 12 A tank measuring 40 cm by 14 cm by 18 cm was $\frac{3}{4}$ filled with water as shown below. All the water in the tank was poured into a cubical container of sides 20 cm.



- (a) How much water was in the tank at first?

$$\frac{3}{4} \times 40 \times 14 \times 18 = 7560 \text{ cm}^3 \text{ (ans)}$$

Ans: (a) 7560 cm³ [2]

- (b) How many more litres of water are needed to fill the cubical container to the brim?

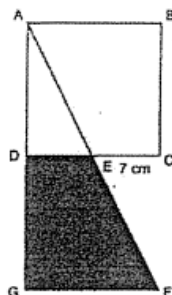
$$20 \times 20 \times 20 = 8000$$

$$8000 - 7560 = 440$$

$$440 \text{ cm}^3 = 0.44 \text{ l (ans)}$$

Ans: (b) 0.44 l [2]

- 14 The figure below shows a right-angled triangle AFG and a square ABCD overlapping each other. ADG is a straight line. $\angle AGF = 90^\circ$, $DC = GF$ and $EC = 7$ cm. The length of AB is twice the length of EC. Triangle AFG has the same area as square ABCD.



- (a) What is the area of square ABCD?

$$7 \times 2 = 14$$

$$14 \times 14 = 196 \text{ cm}^2 \text{ (ans)}$$

Ans: (a) 196 cm² [2]

- (b) Find the shaded area DEFG.

$$\text{Area of } \triangle ADE = \frac{1}{2} \times 7 \times 14 = 49$$

$$196 - 49 = 147 \text{ cm}^2 \text{ (ans)}$$

Ans: (b) 147 cm² [2]

- 13 Kean Yew had 7200 shuttlecocks. He packed the shuttlecocks into as many bags of 7 shuttlecocks as possible and had some shuttlecocks left unpacked. He sold all his shuttlecocks and received \$3608. Each bag of shuttlecocks was sold at \$3.50.

- (a) How many shuttlecocks were left unpacked?

$$7200 \div 7 = 1028 \text{ R } 4$$

Ans: (a) 4 [1]

- (b) Each of the shuttlecocks left unpacked was sold at the same price. How much did each of the shuttlecocks left unpacked was sold at?

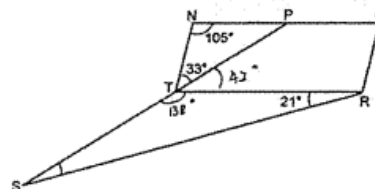
$$1028 \times \$3.50 = \$3598$$

$$\$3608 - \$3598 = \$10$$

$$\$10 \div 4 = \$2.50 \text{ (ans)}$$

Ans: (b) \$2.50 [3]

- 15 In the figure below, NQRT is a parallelogram. P is a point on NQ and PTS is a straight line. $\angle NTP = 33^\circ$, $\angle PNT = 105^\circ$ and $\angle TRS = 21^\circ$.



- (a) Find $\angle RST$.

$$\begin{aligned} \angle PTR &= 180^\circ - 105^\circ - 33^\circ \\ &= 42^\circ \end{aligned}$$

$$\begin{aligned} \angle STR &= 180^\circ - 42^\circ \\ &= 138^\circ \end{aligned}$$

$$\begin{aligned} \angle RST &= 180^\circ - 138^\circ - 21^\circ \\ &= 21^\circ \text{ (ans)} \end{aligned}$$

Ans: (a) 21 [3]

- (b) Circle the words that describe triangle RTS correctly in the following statement.

Triangle RTS (is / is not) an isosceles triangle because RT (is / is not) equal to ST.

[1]

- 16 Cindy had a piece of ribbon. She used $\frac{2}{7}$ of the ribbon to make 15 small identical bows and 7 large identical bows. The length of ribbon used for 3 large bows was the same as the length of ribbon used for 5 small bows.

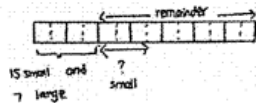
(a) How many large bows can she make with the same length of ribbon used for 15 small bows?

$$15 \div 5 = 3$$

$$3 \times 3 = 9 \text{ (ans)}$$

Ans: (a) 9 [1]

(b) How many small bows can she make with $\frac{3}{10}$ of the remaining ribbon?



$$\frac{2}{7} = \frac{4}{14} \rightarrow 15 \text{ small} + 7 \text{ large}$$

$$\rightarrow 9 \text{ large} + 7 \text{ large}$$

$$\rightarrow 16 \text{ large}$$

$$\frac{1}{14} \rightarrow 16 \div 4$$

$$= 4$$

$$\frac{3}{14} \rightarrow 4 \times 3$$

$$= 12 \text{ large}$$

$$\rightarrow (\frac{12}{3} \times 5) \text{ small}$$

$$\rightarrow 20 \text{ small (ans)}$$

Ans: (b) 20 [4]

- 17 Hon Lee formed some figures using squares and circles as shown below.



Figure	1	2	3	4
Number of circles	1 $1 \times 1 = 1$	4 $2 \times 2 = 4$	9 $3 \times 3 = 9$	16 $4 \times 4 = 16$
Number of squares	2 1×1	8 3×2	12 4×3	20 5×4
Total number of circles and squares	3	10	21	36

(a) Find the number of circles in Figure 8.

$$8 \times 8 = 64 \text{ (ans)}$$

Ans: (a) 64 [1]

17. (b) Which figure in the pattern has 930 squares?

$$30 \times 31 = 930$$

(ans)

(b) Figure 30 [2]

(c) Find the total number of circles and squares in Figure 15.

$$\text{circle} \rightarrow 15 \times 15 = 225$$

$$\text{squares} \rightarrow 15 \times 16 = 240$$

$$\text{Total} \rightarrow 225 + 240 = 465 \text{ (ans)}$$

(c) 465 [2]

End of Paper

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RAFFLES GIRL'S PRIMARY SCHOOL EOY PAPER

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 your answer (1, 2, 3 or 4) on the OAS provided.
All diagrams are not drawn to scale. (20 marks)

1. Which of the following is the same as 8.03 kg?

- (1) 83 g
- (2) 803 g
- (3) 8030 g
- (4) 8300 g

2. In 51.027, which digit is in the tenths place?

- (1) 0
- (2) 2
- (3) 5
- (4) 7

3. Express $\frac{11}{4}$ as a decimal.

- (1) 2.34
- (2) 2.43
- (3) 2.72
- (4) 2.75

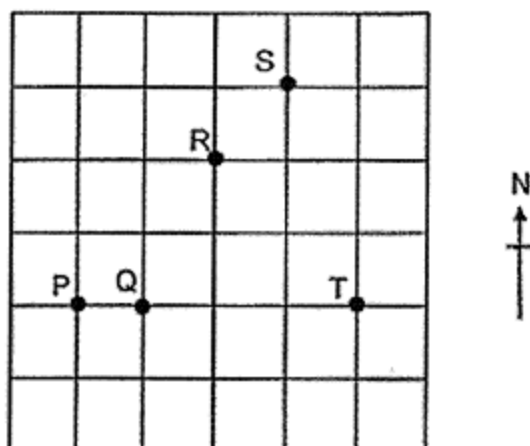
4. Round 39 521 to the nearest thousand.

- (1) 39 000
- (2) 39 500
- (3) 40 000
- (4) 40 521

5. The length of a rectangle is $\frac{7}{9}$ m and the breadth is 6 m. Find the area of the rectangle.

- (1) $2\frac{1}{3}$ m²
- (2) $4\frac{2}{3}$ m²
- (3) $6\frac{7}{9}$ m²
- (4) $13\frac{5}{9}$ m²

6.



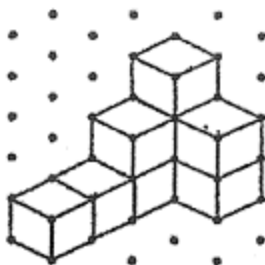
In the square grid, point _____ is south-west of point R.

- (1) P
- (2) Q
- (3) S
- (4) T

7. Jane and 4 of her classmates spent an average of \$16.40 at a cafe. How much did they spend altogether?

- (1) \$82.00
- (2) \$65.60
- (3) \$4.10
- (4) \$3.28

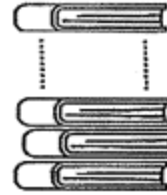
8. The solid is made up of 1-cm unit cubes. What is the volume of the solid?



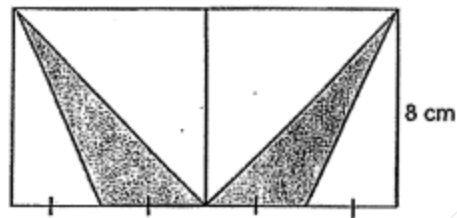
- (1) 7 cm^3
 (2) 8 cm^3
 (3) 9 cm^3
 (4) 10 cm^3
9. In a class of 36 pupils, there are 9 pupils who wear spectacles. What is the percentage of pupils who do not wear spectacles?
- (1) 25%
 (2) 27%
 (3) 75%
 (4) 80%
10. In Singa Primary School, $\frac{4}{9}$ of the pupils are girls. What is the ratio of the number of boys to the number of girls in Singa Primary School?
- (1) 5 : 4
 (2) 5 : 9
 (3) 4 : 5
 (4) 4 : 9

11. The thickness of a book is 2.04 cm. What is the height of 90 such books stacked on top of one another? Give your answer in metres.

- (1) 1.836 m
- (2) 18.36 m
- (3) 183.6 m
- (4) 1836 m



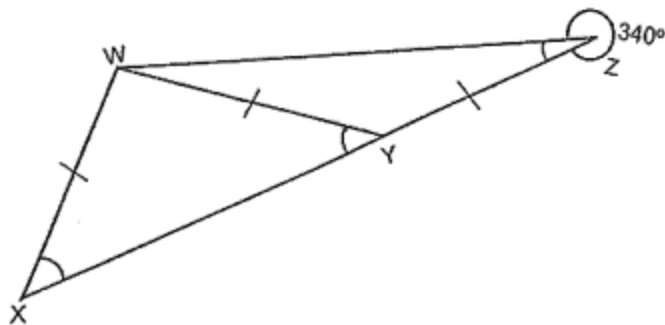
12.



The rectangle is made up of 2 identical squares. Find the total area of the shaded triangles.

- (1) 16 cm^2
- (2) 32 cm^2
- (3) 64 cm^2
- (4) 128 cm^2

13. In the figure, WXY and WYZ are isosceles triangles. Find $\angle WXY$.



- (1) 20°
 (2) 40°
 (3) 45°
 (4) 60°
14. Anette had $\frac{7}{8}$ m of ribbon. She used $\frac{3}{4}$ of it to tie a flower bouquet. How much ribbon had she left?
- (1) $\frac{1}{8}$ m
 (2) $\frac{7}{32}$ m
 (3) $\frac{21}{32}$ m
 (4) $1\frac{5}{8}$ m
15. Terry had some \$2, \$5, and \$10 notes in his wallet. He had 12 notes and the total value of the notes was \$71. How many \$5-notes did he have?
- (1) 7
 (2) 2
 (3) 3
 (4) 5

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions that require units, give your answers in the units stated. All diagrams are
not drawn to scale. (5 marks)

16. Find the value of $12 \div (4 - 2) \times 3$.

Ans: _____

17. Mr Pang baked 5 pies and gave them to 3 of his neighbours. Each neighbour received an equal share of the pies. What fraction of the pies did each neighbour receive?

Ans: _____

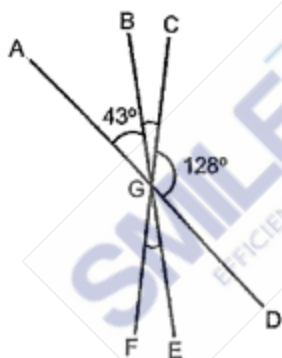
18. Express 2095 m in km.

Ans: _____ km

19. Find the value of $\frac{18}{5} \times \frac{11}{12}$. Give your answer as a mixed number in the simplest form.

Ans: _____

20. In the figure, AGD, BGE and CGF are straight lines. Find $\angle FGE$.



Ans: _____°

Questions 21 to 30 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 that require units, give your answers in the units stated. All diagrams are not drawn to scale. (20 marks)

21. Find the value of the following.

(a) 700×2.8

(b) $650.4 \div 40$

Ans: (a) _____

(b) _____

22. What is the missing number in the box?

(a) $9 : 15 = 6 : \square$

(b) The amount of sugar a baker used was $\frac{2}{5}$ of the amount of flour he used to bake a cake. What was the ratio of the amount of sugar used to the amount of flour used?

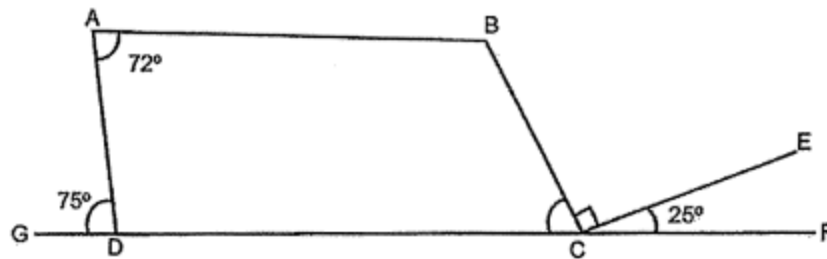
Ans: (a) _____

(b) _____

23. An empty container weighs $\frac{1}{6}$ kg. The mass of the container with a ball in it is $\frac{5}{12}$ kg. What is the mass of 30 balls? Give your answer as a mixed number in its simplest form.

Ans: _____ kg.

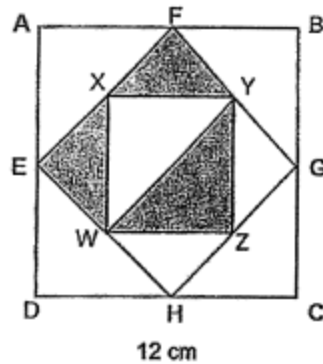
24. ABCD is a quadrilateral. GDCF is a straight line.



Each statement below is either true, false or impossible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Impossible to tell
(a) $\angle BCD = 65^\circ$.			
(b) The sum of $\angle ADC$ and $\angle BCD$ is 180° .			
(c) ABCD is a trapezium.			

25. ABCD, EFGH and WXYZ are squares. E, F, G, H, W, X, Y, Z are all midpoints. CD is 12 cm.



Find the total area of the shaded parts.

Ans: _____ cm²

26. At an exercise session, there were 500 participants. 50% of them were children. 40% of the children were girls. How many girls were there?

Ans: _____

27. Liba had 3 times as many fiction books as non-fiction books. She donated $\frac{1}{6}$ of her fiction books and some non-fiction books. In the end, she was left with $\frac{3}{4}$ of her books. What fraction of her non-fiction books did she donate? Give your answer in fraction in its simplest form.

Ans: _____

28. At a concert, the number of adults to the number of children is 8 : 3. The ratio of the number of females to the total number of people is 15 : 33. $\frac{1}{3}$ of the adults are women. What is the ratio of the number of girls to the number of women?

Ans: _____

29. A machine can print 2400 pages in 1 hour. How many pages can it print in 45 minutes at this rate?

Ans: _____

30. Ravi had some marbles. He took 1000 marbles and placed them into 3 boxes, A, B and C. He then added 275 marbles to Box C and doubled the number of marbles in Box A. He took out 300 marbles from Box B. In the end, there was an equal number of marbles in all the 3 boxes. How many marbles were there in Box A at first?

Ans: _____

End of Paper

☺ Please check your work carefully ☺

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. All diagrams are not drawn to scale. (10 marks)

1. The table shows the charges for delivering items within Singapore by a company. How much will Mrs Sammy have to pay the company for the delivery of an item that weighs 36.2 kg?

Mass Step Not Over	Delivery Charge
5 kg	\$14
15 kg	\$17
30 kg	\$20
Per additional step of 1 kg or part thereof	\$2.50

Ans : \$ _____

2. The price of an air-fryer is \$135. Mr Henderson bought it at a discount of 15%. How much did he pay for the air-fryer?

Ans : \$ _____

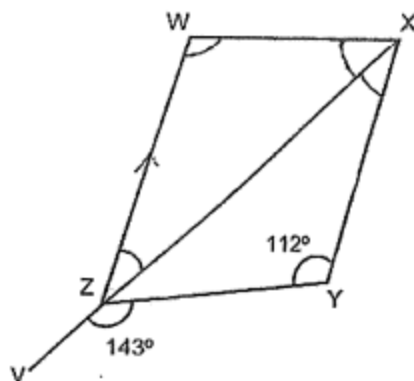
3. Jacob had 8 litres of juice. He poured the juice into some cups for his friends. Each cup contained 0.24 l of juice. How much juice did he have left?

Ans : _____ ml

4. 11 lamp posts are placed equally apart along Hill Road. The distance between the 1st lamp post and the 5th lamp post is $23\frac{1}{7}$ m. What is the distance from the 1st lamp post to the last lamp post? Give your answer as a mixed number in the simplest form.

Ans : _____ m

5. WXYZ is a quadrilateral. WZ is parallel to XY. VZX is a straight line.

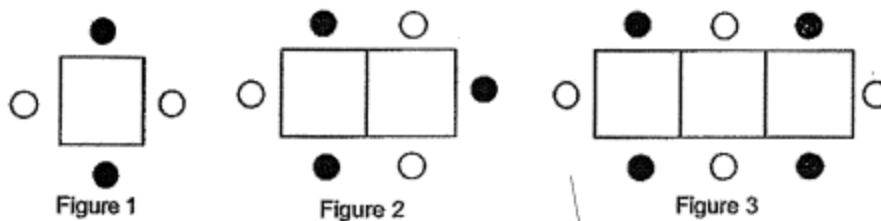


Find $\angle WZX$.

Ans : _____ °

For questions 6 to 17, show your working clearly in the space provided for each question 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. All diagrams are not drawn to scale. (45 marks)

6. Rani used squares and circles to form figures to follow a pattern as shown.

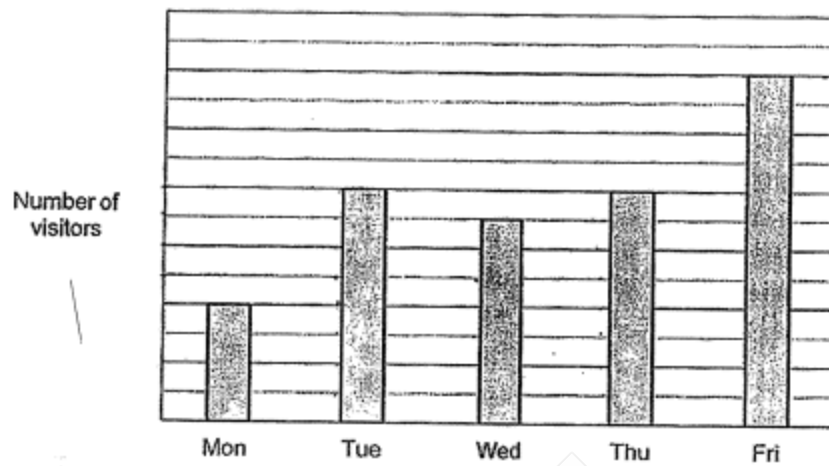


- (a) Which figure has 10 shaded circles?
- (b) How many circles and squares are there altogether in Figure 123?

Ans : (a) _____ [1]

(b) _____ [2]

7. The graph shows the number of visitors at Jelly Museum from Monday to Friday.



- (a) There were 3680 more visitors on Tuesday than on Monday. How many visitors were there on Friday?
- (b) What was the total number of visitors from Monday to Friday?

Ans : (a) _____ [2]

(b) _____ [1]

8. Mr Theng earned \$4038 in July. He spent $\frac{1}{3}$ of it on rent and $\frac{3}{8}$ of the remainder on food.

(a) How much money did he spend on rent?

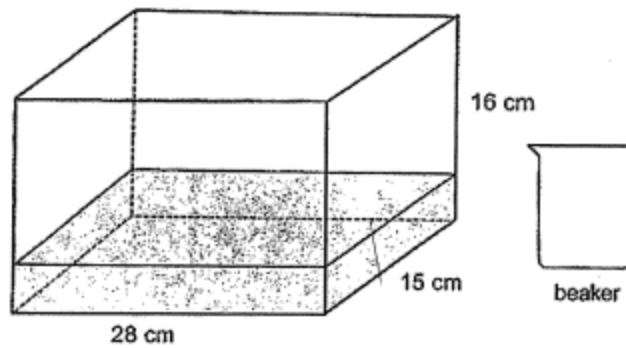
(b) How much money had he left?



Ans : (a) _____ [1]

(b) _____ [2]

9. Mr Tan wanted to fill the tank with water to the brim. He used 6 beakers of water to fill $\frac{1}{7}$ of the tank.



- (a) How many more beakers of water would he need to fill the tank to the brim?
- (b) Find the volume of 1 beaker.

Ans : (a) _____ [1]

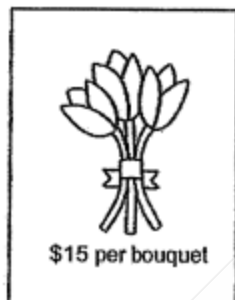
(b) _____ [2]

10. Jalyn spent \$96 on grocery and $\frac{1}{5}$ of her remaining money on transport. She was left with $\frac{8}{15}$ of her money. How much money did she have at first?



Ans : _____ [3]

11. A florist sells bouquets of flowers at \$15 per bouquet. When a customer buys 3 or more bouquets, a discount of 5% will be given on the total bill.
- (a) Kelly bought 6 bouquets. How much was the discount given to her?
- (b) Mrs Aishah paid \$513 after discount for some bouquets of flowers. How many bouquets of flowers did she buy?



Ans : (a) _____ [2]

(b) _____ [2]

12.

Day	Mon to Thur	Fri to Sat	Sun
No of hours worked per day	6	9	0

The table shows the number of hours Maggie worked in a restaurant.

- (a) What is the average number of hours she worked per day?
- (b) Maggie is paid \$8.50 per hour. What is the total amount of money she earned in 1 week?

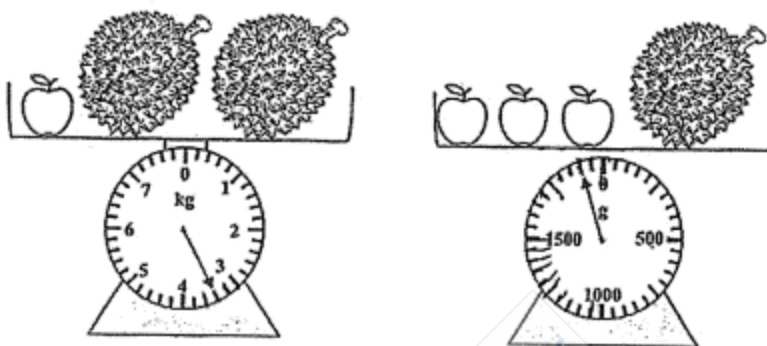


Ans : (a) _____ [3]

(b) _____ [1]

13. The mass of some fruits at a store is shown. Mdm Spencer bought 3 durians and 4 apples.

- (a) What is the mass of an apple? Give your answer in kg.
- (b) Mdm Spencer could carry a maximum mass of 10 kg of fruits. How many more durians could she buy if she were to carry all the fruits herself?



Ans : (a) _____ [2]

(b) _____ [2]

14. Every child was given 2 bags of cookies. Each bag contained either 10 chocolate cookies or 15 butter cookies. There were 88 children and they received 2345 cookies altogether. How many butter cookies did the children receive?

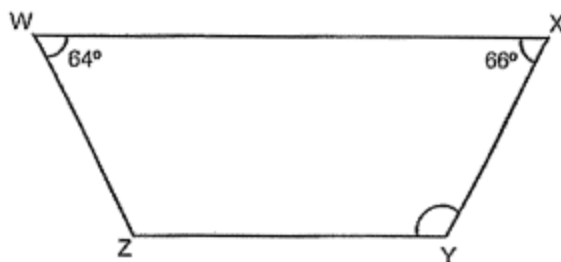


Ans : _____ [4]

15. The figure shows a piece of paper folded at its two corners.

WX is parallel to ZY.

Before folding



After folding



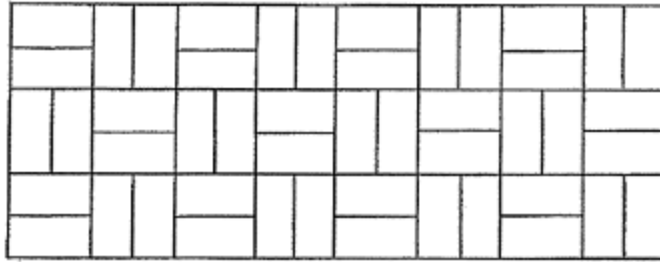
- (a) Find $\angle XYZ$.

- (b) Find $\angle V$.

Ans : (a) _____ [1]

(b) _____ [3]

16. A rectangular wall is covered by identical smaller rectangular tiles.



- (a) The perimeter of the wall is 1144 cm. Find the length of the wall.
 (b) Find the area of one rectangular tile.



Ans : (a) _____ [3]

(b) _____ [2]

17. The number of bangles to the number of necklaces sold in an accessory shop was 4 : 3. The shop received \$2100 altogether from selling the bangles and necklaces. The amount received from selling the bangles was \$348 more than the amount received from selling the necklaces. Each bangle cost \$1 more than each necklace.
- (a) How much money was received from selling the necklaces?
- (b) How many necklaces were sold in the shop?



Ans : (a) _____ [1]

(b) _____ [4]

End of Paper

☺ Please check your work carefully ☺

ANSWER SHEET

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	4	3	2	1	1	3	3	1

Q 11	Q12	Q13	Q14	Q15
1	2	2	2	4

PAPER 1 BOOKLET B

Q16)	$12\% (4 - 2) \times 3 = 12\% 2 \times 3 = 6 \times 3 = 18$ (Ans)
Q17)	$5\% 3 = 5/3 = 1\frac{2}{3}$ (Ans)
Q18)	2.095
Q19)	$\frac{18}{5} \times \frac{11}{12} = 198/60 = 3\frac{3}{10}$ (Ans)
Q20)	$180^\circ - 43^\circ - 128^\circ = 9^\circ$ (Ans)
Q21)	a) 1960 b) 16.26
Q22)	a) 10 b) 2:5
Q23)	$\frac{5}{12} - \frac{2}{12} = \frac{3}{12}$ $\frac{3}{12} \times 30 = 7\frac{1}{2}$ (Ans)
Q24)	a) True b) False c) False
Q25)	$\frac{1}{2} \times 6 \times 6 = 18$ $18 \times 4 = 72$ $12 \times 12 = 144$ $144 - 72 = 72$ $72\% 2 = 36$ (Ans)

Q26)	$500 \times 50\% = 250$ $250 \times 40\% = 100$ (Ans)
Q27)	$F : N : T$ $3 : 1 : 4 \rightarrow 6 : 2 : 8 \rightarrow 5 : 1 : 6$ Answer: $\frac{1}{2}$
Q28)	$A : C : T$ $8 : 3 : 11$ \rightarrow $24 : 9 : 33$ $W = \frac{1}{3} \times 24 = 8$ $G = 15 - 8 = 7$ $G : W$ 7 : 8 (Ans)
Q29)	$1 \text{ min} \rightarrow 2400 \times 60 = 40$ $45 \text{ min} \rightarrow 40 \times 45 = 1800$ (Ans)
Q30)	$1000 - 300 = 700$ $4u + (1u - 275) = 700$ $5u = 700 + 275 = 975$ $1u = 975 \div 5 = 195$ (Ans)

PAPER 2

Q1)	First 30kg $\rightarrow \$20$ $6.2\text{kg} \rightarrow \$2.5 \times 7 = \$17.50$ Total = \$20 + \$17.50 = \$37.50 (Ans)
Q2)	$\frac{85}{100} \times 135 = 114.75$ (Ans)
Q3)	$8000 \div 240 = 33 \text{ R } 80$ Answer: 80 ml
Q4)	$1 \text{ interval} \rightarrow 23\frac{1}{7} \times 4 = 5\frac{11}{14}$ $10 \text{ interval} \rightarrow 5\frac{11}{14} \times 10 = 57\frac{6}{7}$ Answer: $57\frac{6}{7}$ m

Q5)	$180^\circ - 143^\circ = 37^\circ$ $180^\circ - 37^\circ - 112^\circ = 31^\circ$ (Ans)
Q6)	a) $10 - 1 = 9$ (Ans) b) $123 + 124 + 124 = 371$ (Ans)
Q7)	a) 1 interval = $3680 \times 4 = 920$ 12 interval = $920 \times 12 = 11040$ (Ans) b) $11040 + 7360 + 6440 + 7360 + 3680 = 35880$ (Ans)
Q8)	a) $1u \rightarrow 4038 \times 6 = 673$ $2u \rightarrow 673 \times 2 = \1346 (Ans) b) $1346 \times 2 = 2692$ $2692 \times 8 = 336.5$ $336.5 \times 5 = \$1682.50$ (Ans)
Q9)	a) $1 - \frac{1}{7} = \frac{6}{7}$ $6 \times 6 = 36$ (Ans) b) $28 \times 15 \times 16 = 6720$ $6720 \times 42 = 160$ $160\text{ml} = 160 \text{ cm}^3$ (Ans)
Q10)	$5u \rightarrow 96$ $15u \rightarrow 96 \times 3 = 288$ Answer: \$288
Q11)	a) $15 \times 6 = 90$ $90 \times 5\% = \$4.50$ (Ans) b) $513 \times 95 = 5.4$ $5.4 \times 5 = 27$ $513 + 27 = 540$ $540 \times 15 = 36$ (Ans)
Q12)	a) Mon – Thurs = $6 \times 4 = 24$ Fri – Sat = $9 \times 2 = 18$ Total = $18 + 24 = 42$ Ave = $42 \times 7 = 6$ (Ans) b) $1h \rightarrow \$8.50$ $42h \rightarrow 8.50 \times 42 = \357 (Ans)
Q13)	a) $3.8 - 3.4 = 0.4$ $0.4 \times 5 = 0.08 \text{ kg}$ (Ans)

Q13	$\begin{aligned}(b) & 1.9 - (3 \times 0.08) = 1.66 \\ & 3.4 + 1.9 = 5.3 \\ & 10 - 5.3 = 4.7 \\ & 4.7 \times 1.66 = 2 \text{ R } 1.38\end{aligned}$
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Answer: 2



14. Number of cookies if all receive 10 x 2 chocolate cookies = $88 \times 20 = 1760$

$$\text{Excess} = 2345 - 1760 = 585$$

$$\text{Difference in cookies per bag} = 15 - 10 = 5$$

$$\text{Number of bags of butter cookies} = 585 \div 5 = 117$$

$$\text{Number of butter cookies} = 117 \times 15 = 1755$$

Ans: 1755

15. a)

$$\angle XYZ = 180 - 66 = 114^\circ$$

b)

$$\angle v = 180 - 2x(180 - 102 - 66) - 2 \times \frac{1}{2} \times (180 - 64)$$

$$= 180 - 24 - 116 = 40^\circ$$

Ans: a) 114°

b) 40°

16. a)

$$\text{Perimeter} = 16u + 16u + 6u + 6u = 44u = 1144$$

$$u = 1144 \div 44 = 26$$

$$\text{Length} = 16u = 16 \times 26 = 416 \text{ cm}$$

b)

$$\text{Area of 1 rectangular tile} = u \times 2u = 26 \times 2 \times 26 = 1352 \text{ cm}^2$$

Ans: a) 416 cm

b) 1352 cm²

17. a)

$$\text{Amount from selling necklaces} = \frac{1}{2} \times (2100 - 348) = \$876$$

b)

$$\text{Ratio of number of bangles vs necklaces} = 4u : 3u$$

p = price of necklace

$$\text{Amount sold for necklaces} = 3u \times p = 876$$

$$4up = 876 \div 3 \times 4 = 1168$$

$$\text{Amount sold for bangles} = 4u \times (p+1) = 2100 - 876 = 1224$$

$$4up + 4u = 1224$$

$$4u = 1224 - 4up = 1224 - 1168 = 56$$

$$u = 56 \div 4 = 14$$

$$\text{Number of necklaces sold} = 3u = 3 \times 14 = 42$$

Ans: a) \$876

b) 42

RED SWASTIKA SCHOOL (PRIMARY) EOY PAPER

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)

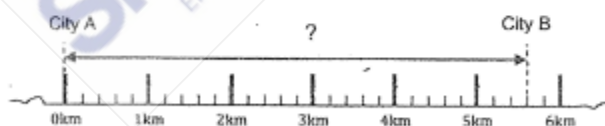
1 $7\,000\,000 + 800\,000 + 50\,000 + 9\,000 + 4 =$ _____

- (1) 785 904
- (2) 785 940
- (3) 7 859 004
- (4) 7 859 040

2 Which of the following has the same value as $22 \div 6$?

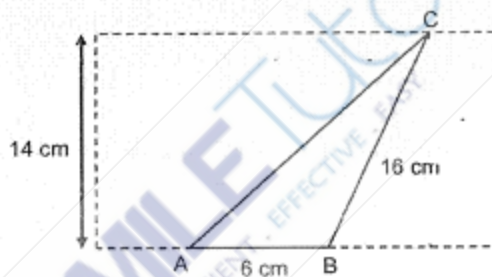
- (1) $1\frac{1}{3}$
- (2) $2\frac{1}{3}$
- (3) $3\frac{1}{3}$
- (4) $3\frac{2}{3}$

3 What is the distance between City A and City B?



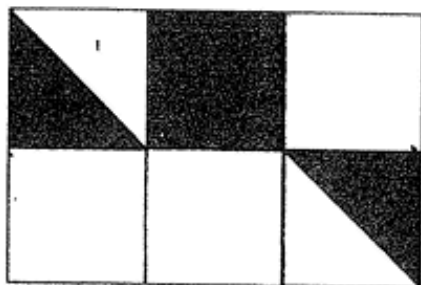
- (1) 5 km 300 m
- (2) 5 km 600 m
- (3) 6 km 300 m
- (4) 6 km 600 m

- 4 Find the value of 1.28×1000 .
- (1) 128
 - (2) 1280
 - (3) 12 800
 - (4) 128 000
- 5 Mary had 1.5 kg of flour. She used 550 g of the flour. What was the amount of flour left?
- (1) 0.95 kg
 - (2) 1.05 kg
 - (3) 1.15 kg
 - (4) 2.05 kg
- 6 In the figure below, not drawn to scale, ABC is a triangle inside a rectangle. Given that $AB = 6$ cm and $BC = 16$ cm, what is the area of triangle ABC?



- (1) 42 cm^2
- (2) 48 cm^2
- (3) 84 cm^2
- (4) 96 cm^2

5. The figure below is made up of identical squares.



What fraction of the figure is shaded?

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

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

(3) $\frac{3}{5}$

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

()

6. The difference between two numbers is 54. The smaller number is 17. What is the sum of the two numbers?

(1) 37

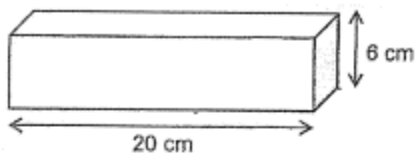
(2) 54

(3) 71

(4) 88

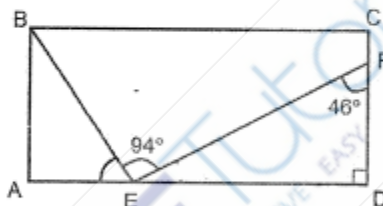
()

- 7 The cuboid has a square face which is shaded as shown.



Find the volume of the cuboid.

- (1) 120 cm^3
 (2) 240 cm^3
 (3) 480 cm^3
 (4) 720 cm^3
- 8 In the figure below, ABCD is a rectangle. $\angle BEF = 94^\circ$ and $\angle DFE = 46^\circ$. Find $\angle AEB$.

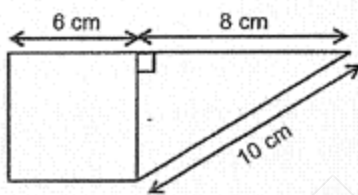


- (1) 40°
 (2) 42°
 (3) 43°
 (4) 44°
- 9 There were 40 students at a picnic. 16 of them were boys. What was the ratio of the number of boys to the total number of students?
- (1) 2 : 3
 (2) 2 : 5
 (3) 3 : 2
 (4) 5 : 2

- 10 Linda had \$130. She spent 60% of the money and saved the rest. How much did she save?

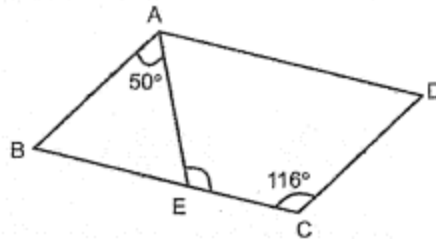
(1) \$90
 (2) \$78
 (3) \$70
 (4) \$52

- 11 The figure is made up of a square and a triangle. Find the area of the figure.



(1) 36 cm^2
 (2) 60 cm^2
 (3) 66 cm^2
 (4) 84 cm^2

- 12 In the figure below, not drawn to scale, ABCD is a parallelogram, $\angle BAE = 50^\circ$ and $\angle DCE = 116^\circ$. Find $\angle AEC$.



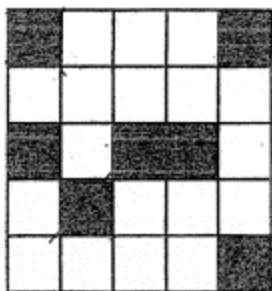
- (1) 64°
 (2) 66°
 (3) 114°
 (4) 130°
- 13 80 students stand in a queue to collect cleaning tools at a Beach Cleanup Activity. There are at least 3 girls between every 2 boys. What is the largest number of boys in the queue?
- (1) 32
 (2) 20
 (3) 17
 (4) 16
- 14 Sam used a special setting in his computer to control his gaming time as shown in the table below.

First 3 games	15 minutes per game
Every additional game	10 minutes

At most, how much time did he use to play 10 games?

- (1) 1 h 15 min
 (2) 1 h 25 min
 (3) 1 h 55 min
 (4) 2 h 25 min

- 15 The figure is made up of identical squares.



What is the least number of shaded squares that should **not** be shaded so that the figure has a line of symmetry?

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



Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

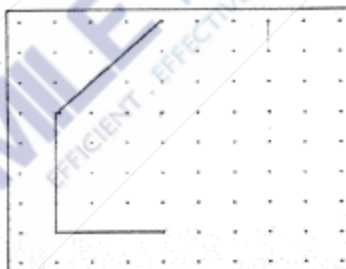
16 Find the value of $24 - (9 + 6) \div 3 \times 2$.

Ans: _____

17 Find the value of $18\ 000 \div 500$.

Ans: _____

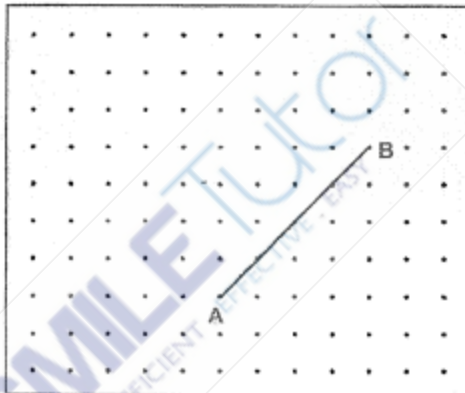
18 By joining the dots on the grid with straight lines, complete the drawing of a cuboid.



- 19 A lorry used 8ℓ of diesel to travel 32 km. At this rate, how many kilometres can the lorry travel on 1ℓ of diesel?

Ans: _____ km

- 20 By joining the dots on the grid below, draw a **straight line AC** such that AC is perpendicular to AB and AC is as long as AB.



Questions 21 to 30 carry 2 marks each. Show your workings 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.

(20 marks)

- 21 Find the value of $\frac{9}{14} \times \frac{2}{3}$ as a fraction in its simplest form.

Ans: _____

- 22 (a) Find the value of 13.7×9 .

Ans: (a) _____

- (b) Find the value of $24.8 \div 400$.

Ans: (b) _____

- 23 Mrs Li prepared 12ℓ of fruit juice to serve her guests at a party. After the party, she had 1ℓ 150 mL of the fruit juice left. What was the amount of fruit juice that had been served during the party?

Ans: _____ ℓ

- 24 A wooden solid measuring 15 cm by 6 cm by 8 cm is shown below. What is the most number of 1-cm wooden cubes that can be cut out from the solid?



Ans: _____

- 25 Raja collected 3 stamps on his first day of the stamp collection challenge. Each day, he collected 5 more stamps than the day before. He collected 43 stamps on the last day of the stamp collection challenge.

Day 1	Day 2	...	Last Day
3	8	...	43

- (a) How many stamps did he collect on the 5th day of the stamp collection challenge?

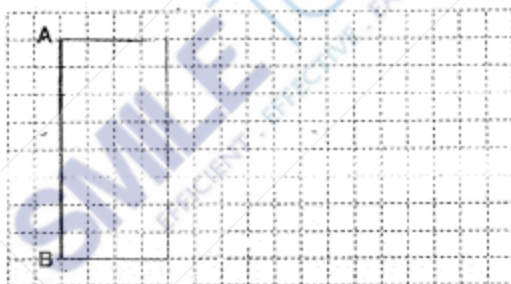
Ans: (a) _____

- (b) How many days were given for him to complete the challenge?

Ans: (b) _____

- 26 In the square grid below, AB is a straight line that forms one side of a rectangle ABCD.

- (a) Complete the drawing of rectangle ABCD such that AB is twice BC.



- (b) Measure the length of AB to the nearest centimetre.

Ans: (b) _____ cm

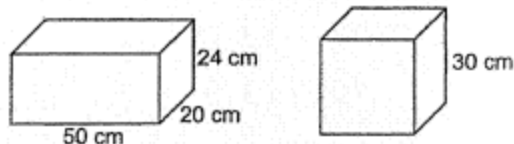
- 27 A bag contained a total of 240 red, blue and green beads. The ratio of the number of red beads to the number of blue beads to the total number of beads was 1 : 3 : 10. How many green beads were there in the bag?

Ans: _____

- 28 Lily had a monthly allowance of \$720. She saved $\frac{1}{4}$ of the allowance and spent $\frac{2}{3}$ of the allowance on food. She spent the remainder equally on transport and her hobby. How much did she spend on transport?

Ans: \$ _____

- 29 A rectangular tank measuring 50 cm by 20 cm by 24 cm and a cubical tank of sides 30 cm were shown below. Both tanks were empty.



For both tanks to be $\frac{2}{3}$ filled with water, how many litres of water would be needed in total?

Ans: _____ ℓ

- 30 Peter was given 2 clocks. One of them was 10 minutes slower and the other was 10 minutes faster. He was only told that both clocks did not tell the correct time.

Based on the information above, each statement below is either true, false or not possible to tell. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
(a) At a certain time, Peter saw 12 50 on one clock and 13 15 on the other clock.			
(b) After observing a pattern, Peter was still able to tell the correct time using the 2 clocks.			

END OF PAPER

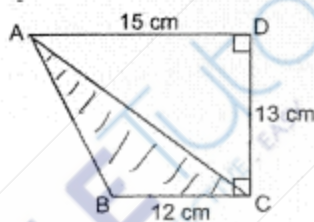
Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

- 1 What is the average of 8, 12, 29 and 36?

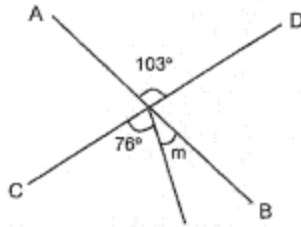
Ans: _____

- 2 The figure is made up of 2 triangles such that $AD = 15$ cm, $CD = 13$ cm and $BC = 12$ cm. Find the area of the shaded triangle ABC.



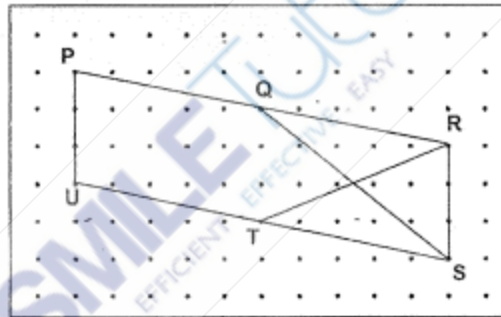
Ans: _____ cm^2

- 3 In the figure below, AB and CD are straight lines. Find $\angle m$.



Ans: _____

- 4 On the grid below, some figures were drawn using straight lines. Name a parallelogram and a trapezium.



(a) _____ is a parallelogram.

(b) _____ is a trapezium.

- 5 The table shows the rates for renting a bicycle from a shop.

First 2 hours	\$12
After the second hour	\$5 per hour or part thereof

Ali rented a bicycle from 10 15 to 14 30. How much did he have to pay?

Ans: \$ _____

For Questions 6 to 17, show your workings clearly in the space below each question 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.

(45 marks)

- 6 The total cost of a bag and 3 files, was \$65. The cost of the bag was twice the cost of each file. What was the cost of the bag?

Ans: _____ [3]

- 7 May prepared 270 red, yellow and blue balloons for a party. $\frac{5}{9}$ of the balloons were red, $\frac{2}{5}$ of the remainder were yellow and the rest were blue. How many balloons were blue?

Ans: _____ [3]

- 8 A straight pathway was covered with identical tiles in a pattern. The length of each tile was 45 cm. The pattern with the starting and ending of the pathway was shown below. The whole pathway required 5000 such tiles.



- (a) What was the length of each tile in metres?

Ans: (a) _____ m [1]

- (b) What was the length of the pathway in kilometres?

Ans: (b) _____ km [2]

- 9 At a factory, one machine took 2 minutes while another machine took 3 minutes to make 6 bottles. Both machines started and stopped making bottles at the same time.

- (a) How many more bottle(s) was/were made by the faster machine than the slower machine per minute?

Ans: (a) _____ [1]

- (b) How many bottles were made in 10 minutes by both machines?

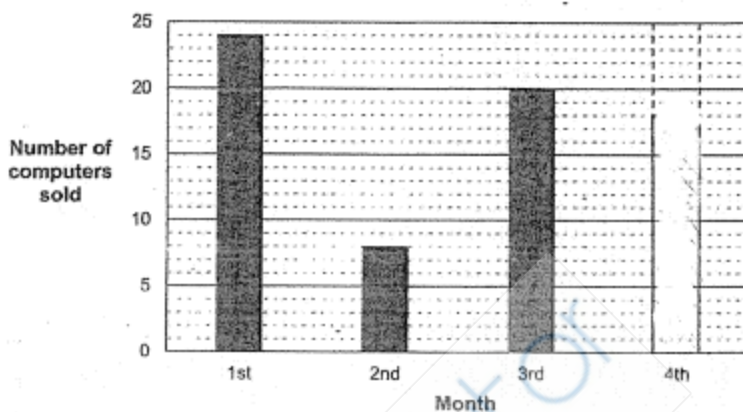
Ans: (b) _____ [2]

- 10 The table and the bar graph were used to record the number of computers sold for 4 months. However, the reading for the 2nd month was missing in the table and the bar was missing for the 4th month in the bar graph.

Table

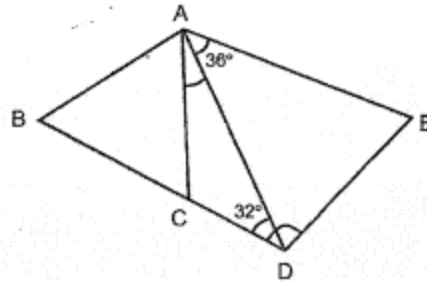
Month	1st	2nd	3rd	4th
Number of computers sold	24		20	18

Bar Graph



- (a) Complete the record by entering the number of computers sold for the 2nd month in the table and drawing the bar for the 4th month. [1]
- (b) The average number of computers sold from the 1st month to the 5th month was 19. How many computers were sold in the 5th month?

- 11 In the figure below, ABC is an equilateral triangle, BCD is a straight line, AD = AE, $\angle DAE = 36^\circ$ and $\angle CDA = 32^\circ$.





- (a) Find $\angle CDE$.

Ans: (a) _____ [2]

- (b) Find $\angle CAD$.

Ans: (b) _____ [1]

12

Sale	
	
First pair of shoes at 40% discount	Second pair of shoes at 55% discount

Tom bought 2 pairs of shoes. Before discount, the price of the first pair of shoes was \$245 and the price for the second pair of shoes was \$150.



(a) What was the discount for the first pair of shoes?

Ans: (a) _____ [2]

(b) What was the price of the second pair of shoes after the discount?

Ans: (b) _____ [2]

- 13 The table shows the prices of cupcakes that are sold at a shop.

1 pack of 3 cupcakes  \$4.90	1 cupcake  \$1.85
---	--

Mrs Tan has \$29 to buy cupcakes at this shop. What is the most number of cupcakes she can buy?

Ans: _____ [5]

- 14 The average of four 3-digit numbers is 348. The first 2 numbers are 255 and 160.

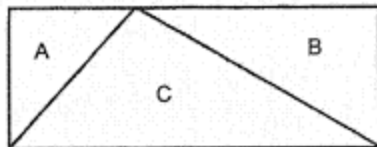
(a) What is the average of the 3rd and 4th numbers?

Ans: (a) _____ [3]

(b) What is the largest difference between the 3rd and the 4th number?

Ans: (b) _____ [2]

- 15 A rectangle is made up of 3 triangles, A, B and C as shown.
 The ratio of the area of triangle A to the area of triangle C is 5 : 12.



- (a) What is the ratio of the area of triangle A to the area of triangle B to the area of triangle C?

Ans: (a) _____ [1]

- (b) The area of triangle A is 80 cm². Find the area of the rectangle.

Ans: (b) _____ [3]

- 16 Two boys used the same number of ice cream sticks to make toy cars. Han used $\frac{2}{7}$ of his ice cream sticks while Jay used $\frac{3}{4}$ of his ice cream sticks. They had a total of 8120 ice cream sticks at first. How many ice cream sticks did each boy use?

Ans: _____ [4]

- 17 A box contained blue beads and red beads. At first, there were 5 times as many blue beads as red beads. After 28 blue beads and 28 red beads were removed, the difference in the number of blue beads and red beads left in the box was 260.

(a) How many blue beads were there in the box at first?

Ans: (a) _____ [3]

(b) What was the total number of beads left in the box?

Ans: (b) _____ [2]


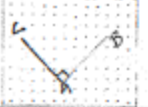


END OF PAPER

ANSWER SHEET

Paper 1 Booklet A

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

Booklet B

Q16		Ans : 14	Q17		Ans : 36
Q18			Q19	$32 \div 8 = 4$	Ans : 4
Q20			Q21	$\frac{9}{14} \times \frac{2}{3} = \frac{3}{7}$	Ans: $\frac{3}{7}$
Q22		Ans : (a) 123.3 (b) 0.062	Q23	$12 - 1.15 = 10.85$	Ans : 10.85
Q24		$8 \times 15 \times 6 = 720$	Q25	(a) $5 - 2 = 3$ $5 \times 3 = 15$ $8 + 15 = 23$ (b) $43 - 3 = 40$ $40 \div 5 = 8$ $8 + 1 = 9$	Ans : (a) 23 (b) 9
Q26	 (a) 	Ans : (b) 4	Q27	$240 \div 5 = 48$ $48 \times 2 = 96$ $240 - 96 = 144$	Ans : 144
Q28		$720 \div 12 = 60$ $60 \div 2 = 30$ Ans : 30	Q29	$50 \times 20 \times 24 \times \frac{2}{3} = 16000$ $30 \times 30 \times 30 \times \frac{2}{3} = 18000$	

			$18000+16000=34000$ Ans : 34
Q30	(a) False (b) False		

Paper 2

Q1	Ans : 21.25	Q2	$\frac{1}{2} \times 12 \times 13 = 78$ Ans : 78
Q3	$103-76=27$ Ans : 27	Q4	(a) PRSU (b) PUSQ
Q5	$12+(5 \times 2)+5=27$ Ans : 27	Q6	$65 \div 5 = 13$ $13 \times 2 = 26$ Ans : \$26
Q7	$270 \div 9 = 30$ $30 \times 4 = 120$ $120 \div 5 = 24$ $24 \times 3 = 72$ Ans : 72	Q8	(a) 0.45 (b) $0.45 \times 5000 = 2250$ $2250m = 2.25km$ Ans : (a) 0.45 (b) 2.25
Q9	(b) $30+20=50$ Ans : (a) 1 (b) 50	Q10	 (a) (b) $19 \times 5 = 95$ $24+8+20+18=70$ $95-70=25$ Ans : (b) 25
Q11	(a) $(180-36) \div 2 = 72$ $72+32=104$ (b) $180-60=120$ $180-120-32=28$ Ans : (a) 104° (b) 28°	Q12	(a) $\frac{40}{100} \times 245 = 98$ (b) $\frac{45}{100} \times 150 = 67.50$ Ans : (a) \$98 (b) \$67.50
Q13	$29 \div 4.90 = 5R4.5$ $5 \times 3 = 15$ $4.90 \times 5 = 24.50$ $29 - 24.50 = 4.50$ $4.50 \div 1.85 = 2R0.8$ $15+2=17$ Ans : 17	Q14	(a) $348 \times 4 = 1392$ $1392 - 255 - 160 = 977$ $977 \div 2 = 488.5$ (b) $977 - 100 = 877$ $877 - 100 = 777$ Ans : (a) 488.5 (b) 777
Q15	(a) 5 : 7 : 12	Q16	$8120 \div 29 = 280$

ROSYTH SCHOOL EOY PAPER

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

1. Seven million, five hundred thousand and ninety-six when written in numerals is _____.

- (1) 7 500 096
- (2) 7 050 096
- (3) 7 005 096
- (4) 7 000 596

2. Round off 6 309 057 to the nearest thousand.

- (1) 6 000 000
- (2) 6 300 000
- (3) 6 310 000
- (4) 6 309 000

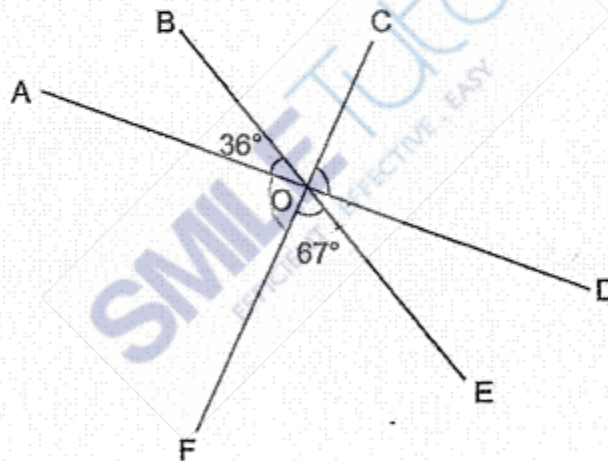
3. $100 \div 40 =$ _____

- (1) 0.4
- (2) 2.5
- (3) 25
- (4) 4

4. For every 14 boys who enter the hall, 6 girls will enter the hall. What is the ratio of the number of girls to the number of boys in the hall?

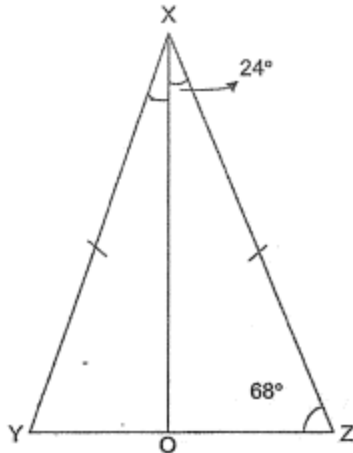
- (1) 3 : 7
- (2) 3 : 10
- (3) 7 : 3
- (4) 7 : 10

5. In the figure, AOD, BOE and COF are straight lines. Find $\angle COD$.



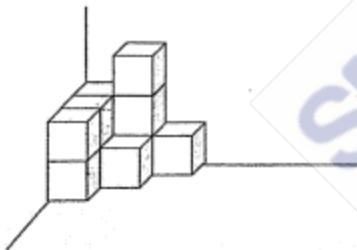
- (1) 31°
- (2) 54°
- (3) 77°
- (4) 113°

6. In the figure below, XYZ is an isosceles triangle. $\angle ZXO = 24^\circ$ and $\angle XZO = 68^\circ$. Find $\angle OXY$.



- (1) 20°
- (2) 44°
- (3) 88°
- (4) 92°

7. The solid is formed by stacking 1-cm cubes at the corner of the room. What is the volume of the solid?



- (1) 7 cm^3
- (2) 8 cm^3
- (3) 10 cm^3
- (4) 11 cm^3

8. The ratio of the number of adults to the number of children attending a party is 1 : 5. What fraction of the people attending the party are children?

- (1) $\frac{1}{5}$
- (2) $\frac{1}{6}$
- (3) $\frac{5}{6}$
- (4) $\frac{4}{5}$

9. Express 0.001 as a percentage.

- (1) 1%
- (2) 0.1%
- (3) 0.01%
- (4) 10%

10. The average pocket money of 3 boys is \$24. Find the total amount of pocket money of the 3 boys.

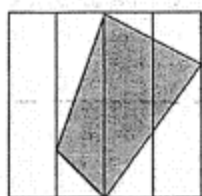
- (1) \$8
- (2) \$21
- (3) \$72
- (4) \$216

11. Kenisha has 80 pieces of ribbons. Each piece of ribbon is 1.04 m long. What is the total length of the 80 pieces of ribbons?
- (1) 8.32 cm
 - (2) 83.2 cm
 - (3) 832 cm
 - (4) 8320 cm
12. Melissa cut a pie into 10 equal pieces. She ate 3 pieces and gave a few pieces to her father. After that, $\frac{1}{5}$ of the pie was left. What fraction of the pie did Melissa give to her father?
- (1) $\frac{1}{2}$
 - (2) $\frac{3}{5}$
 - (3) $\frac{3}{10}$
 - (4) $\frac{7}{10}$
13. Mr Selva had 3 kg of sand. He used $\frac{2}{3}$ of the sand and threw away $\frac{1}{6}$ kg of the sand. How much sand was Mr Selva left with?
- (1) $\frac{1}{6}$ kg
 - (2) $\frac{5}{6}$ kg
 - (3) $\frac{7}{9}$ kg
 - (4) $\frac{13}{6}$ kg

14. Boston has an equal number of twenty-cent and fifty-cent coins. The total value of his coins is \$14. How many coins does Boston have altogether?

- (1) 20
- (2) 28
- (3) 40
- (4) 70

15. The figure below is made up of 4 identical rectangles. What fraction of the figure is shaded? Give your answer in its simplest form.



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

(End of Booklet A)

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
 For questions which require units, give your answers in the units stated.

All diagrams in this paper are not drawn to scale unless stated otherwise.
 (5 marks)

16. Write down a decimal that is greater than $\frac{1}{5}$ but smaller than $\frac{1}{4}$. Give your answer in 2 decimal places.

Ans: _____

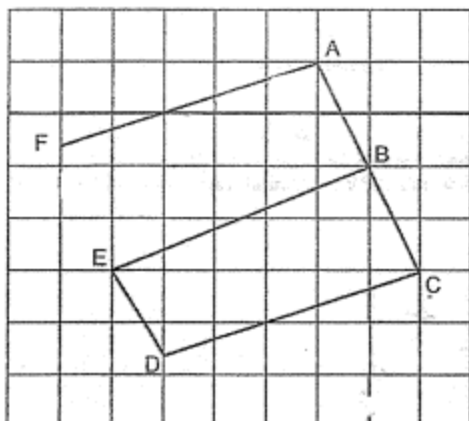
17. What is the value of $7 + 3 \times 6 - 3$?

Ans: _____

18. Find the value of $\frac{2}{9} \times \frac{27}{8}$.
 Give your answer as a fraction in the simplest form.

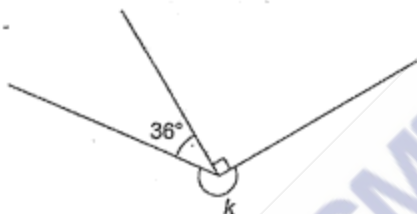
Ans: _____

19. Which two lines in the square grid are parallel to each other?



Ans: Line _____ // Line _____

20. In the figure below, find the value of $\angle k$.



Ans: _____ °

Questions 21 to 30 carry 2 marks each. Show your workings 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.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

21. Alynna wanted to multiply a number by 20. Instead of pressing the multiplication sign, she pressed the division sign on the calculator. She obtained the incorrect answer of 112.2. What should the correct answer be?

Ans: _____

22. The students in a school take the bus, walk or cycle home in the ratio of 6 : 1 : 2. 189 students walk to school, how many students are there in the school?

Ans: _____

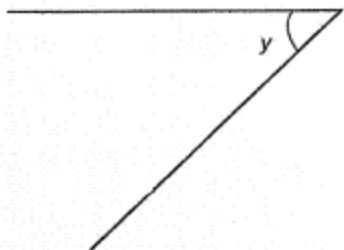
23. Mrs Liew deposits \$90 000 in a bank for one year. The interest rate is 2% per year. What is the total amount of money she will have in the bank at the end of one year?

Ans: \$ _____

24. A container of sweets was shared equally among 20 children. 4 of them gave all their sweets to the rest of the children. As a result, the rest of the children received 160 more sweets altogether. How many sweets were there in the container at first?

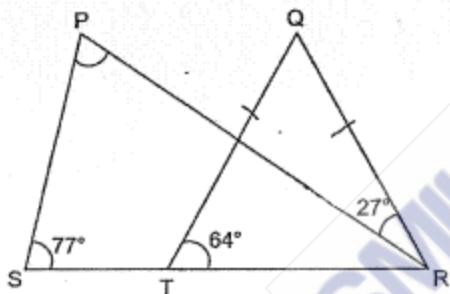
Ans: _____

25. Measure and write down the size of $\angle y$.



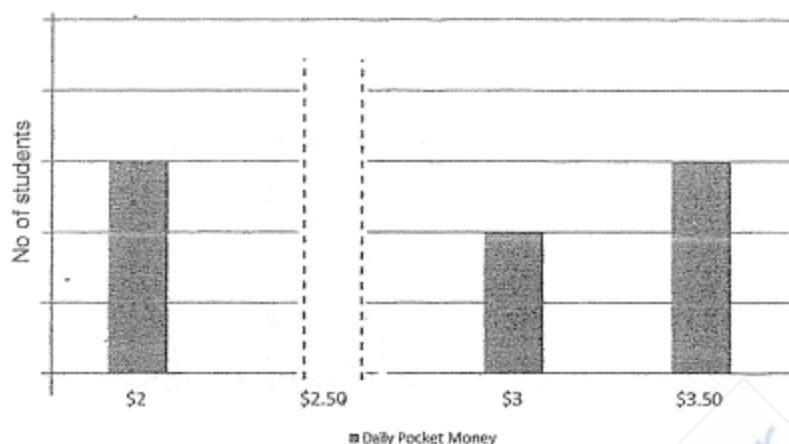
Ans: _____°

26. In the figure below, $\triangle PRS$ and $\triangle QRT$ are triangles. RTS is a straight line and $QT = QR$. $\angle QTR = 64^\circ$, $\angle QRP = 27^\circ$ and $\angle PST = 77^\circ$. Find $\angle SPR$.



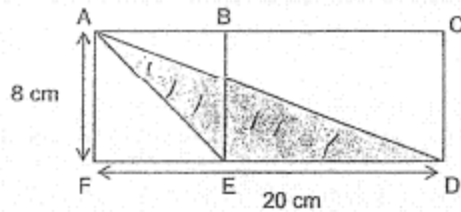
Ans: _____°

27. The bar graph shows the daily pocket money some students receive from their parents. $\frac{1}{5}$ of these students receive \$2.50 for their pocket money daily. Draw the bar that shows the number of students who receive \$2.50 for their pocket money daily.



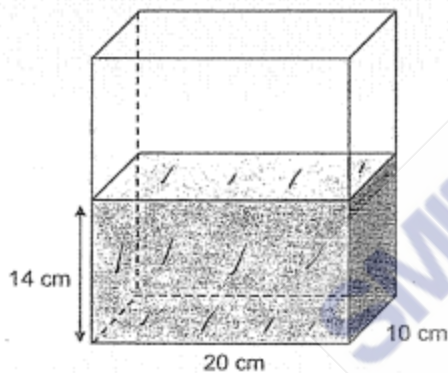
SMILE Tutor
EFFICIENT · EFFECTIVE · EASY

28. The figure shown below is made up of square ABEF and rectangle BCDE. $FD = 20$ cm and $AF = 8$ cm. Find the area of the shaded triangle ADE.



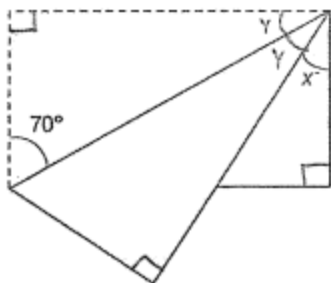
Ans: _____ cm^2

29. A rectangular container is filled with water to a depth of 14 cm. Hannah pours another 1.05 litres of water into the container. How much water is there in the container in the end? Express your answer in litres and millilitres.



Ans: _____ l _____ ml

30. A rectangular piece of paper was folded as shown below. Find $\angle x$.



Ans: _____°

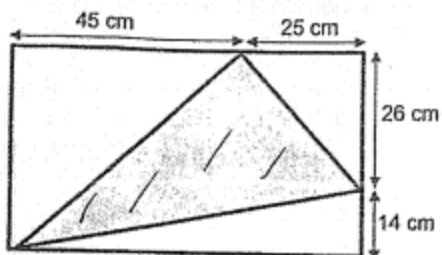
End of Paper
Have you checked your work?
9

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

1. A shaded triangle is drawn inside a rectangle in the diagram shown below. Find the area of the shaded triangle.



Ans: _____ cm^2

2. The table below shows the parking charges at a shopping mall.

Hours	Charges
1 st hour or part thereof	\$2.80
Subsequent 30 minutes or part thereof	\$0.90

Mr Wong parked his car at the shopping mall from 5.45 p.m. to 7.55 p.m.
How much was his parking charges?

Ans: \$ _____

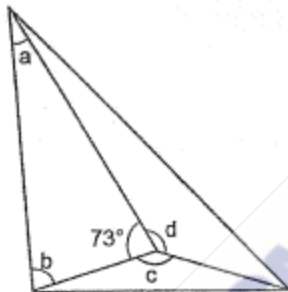
3. Sam had \$340 more than John.
Daniel had twice as much money as Sam.
The total amount of money that Sam and Daniel had was \$1230.
How much money did John have?

Ans: \$ _____

4. Daryl and James spent an average of \$12.20 on their dinner. Daryl spent \$2.40 less than James, how much did James spend on his dinner?

Ans: \$ _____

5. The figure is made up of 3 triangles.
Find the sum of $\angle a + \angle b + \angle c + \angle d$.



Ans: _____ °

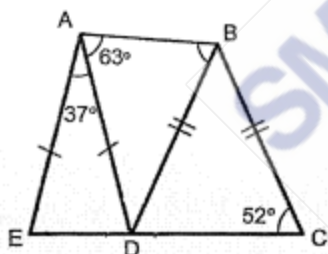
For Questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. For questions which require units, give your answers in the units stated. (45 marks)

All diagrams in this paper are not drawn to scale unless stated otherwise.

6. Mdm Ong had some sugar. She used $\frac{3}{7}$ of it to make lollipops. She then used $\frac{2}{5}$ of the remainder to make muffins. 210 kg of the sugar was left. What was the amount of sugar that she had at first?

Ans: _____ [3]

7. The figure below is made up of 3 different triangles, ADE, ABD and BCD. ADE and BCD are isosceles triangles. $\angle DAE$ is 37° and $\angle BAD$ is 63° . EDC is a straight line. Find $\angle ABD$.



Ans: _____ [3]

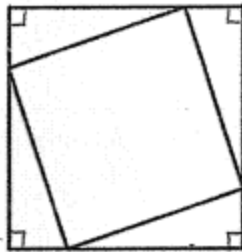
8. At a funfair, the ratio of the number of children to the number of adults was 4 : 9. The ratio of the boys to the number of girls was 3 : 4. There was a total of 64 girls. How many adults were there altogether?

Ans: _____ [3]

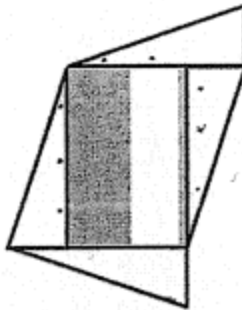
9. A box with 9 identical ring files has a mass of 2 kg 2 g.
The same box with 14 such ring files has a mass of 2642 g.
What is the mass of the box? Give your answer in kg.

Ans: _____ [3]

10. 4 identical right-angled triangles were cut out from a piece of square paper. The piece of square paper has an area of 64 cm^2 . The 4 right-angled triangles were used to form the shape as shown below on the right. The perimeter of the shaded rectangle formed is 20 cm. Find the area of the shaded rectangle.

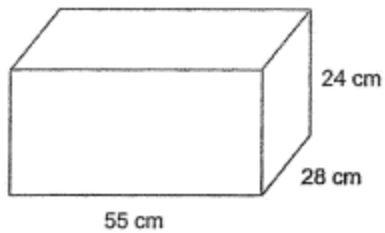


Square Paper



Ans: _____ [3]

11. James had a rectangular container measuring 55 cm by 28 cm by 24 cm. It was $\frac{5}{8}$ filled with water. James then poured out $\frac{1}{4}$ of the water. How much water remained in the container? Leave your answer in litres and millilitres.



Ans: _____ [4]

12. Ahmad spent \$112 for 5 identical books and 5 identical pens. The cost of 4 pens is the same as 3 books. What is the cost of 1 pen?



Ans: _____ [4]

13. Elena bought many types of toys at an average cost of \$12. She then bought one of each of the following two toys and the average cost of all her toys became \$14.



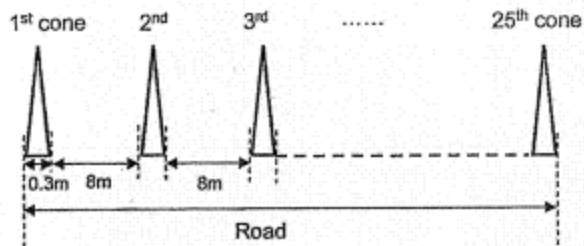
- (a) How many toys did she buy in total?

Ans: (a) _____ [3]

- (b) What was the total cost of all her toys that she bought?

Ans: (b) _____ [1]

14. There were 25 similar cones that are placed at equal distance along a straight road. The first cone was placed at the start of the road and the 25th cone is placed exactly at the end of the road as shown below. The length of the base of each cone was 0.3 m and the distance between 2 cones was 8 m.



- (a) Find the length of the road.

Ans: _____ [1]

- (b) 4 of the cones were removed and the rest of the cones were rearranged at equal distance from one another with the first cone placed at the start of the road and the last cone at the end of the road. What was the new distance between each of the cones?

Ans: _____ [3]

15. There are some red, green and black beans in a tin. 28% of the beans in the tin are red. The ratio of the number of the green beans to the number of black beans is 8 : 1. There are 468 more green beans than red beans. How many red beans are there?



Ans: _____ [4]

16. The 2 tables below show the delivery fee for parcels of 2 different companies, Fast Express and SaSamoveit.

The delivery fee is made up of 2 parts, a service fee and a fee based on distance.

Company	Service fee	First 5 km	Above 5 km
Fast Express	\$9	\$1.20 per km or part thereof.	\$0.70 per km or part thereof.

Company	Service fee	First 3 km	Above 3 km
SaSamoveit	\$12	\$1 per km or part thereof.	\$0.45 per km or part thereof.

- (a) Mr Lee wants to send a parcel from RH School to NR School which is 4.4 km away.

What is the delivery fee he needs to pay if he uses SaSamoveit?

Ans: (a) _____ [2]

- (b) Mrs Wen wants to send a parcel from her house to her friend's house which is 8.7 km away.

- (i) Which company should she choose to save money? Circle the correct company.

Fast Express / **SaSamoveit.** [1]

- (ii) How much will she save when she uses the cheaper company?

Ans: (bii) _____ [2]

17. Eddie had some engine oil. He sold $\frac{2}{3}$ of his engine oil on Monday. He then sold $\frac{4}{9}$ of the remainder and an extra 340 litres on Tuesday. On Wednesday, he sold $\frac{1}{2}$ of the remainder and an extra 200 litres. Eddie then kept the remaining 1260 litres of engine oil for himself. How much engine oil did he have at first?

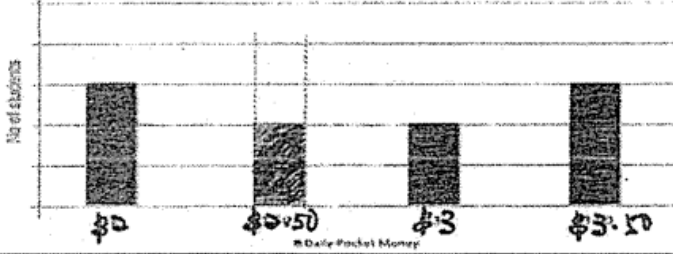
Ans: _____ [5]

End of paper
Have you checked your work?

ANSWER SHEET

Booklet A Q1	1
Booklet A Q2	4
Booklet A Q3	2
Booklet A Q4	1
Booklet A Q5	3
Booklet A Q6	1
Booklet A Q7	4
Booklet A Q8	3
Booklet A Q9	2
Booklet A Q10	3
Booklet A Q11	4
Booklet A Q12	1
Booklet A Q13	2
Booklet A Q14	3
Booklet A Q15	4

Booklet B Q1	0.23
Booklet B Q2	$7 \div 3 \times 6 - 3$ $= 7 \div 18 - 3$ $= 25 - 3$ $= 22$
Booklet B Q3	$2/9 \times 27/8 = 54/72$ $= 3/4$
Booklet B Q4	Line AF // Line CD
Booklet B Q5	$K: 350 - 36 - 90$ $= 270 - 36 = 24^\circ$
Booklet B Q6	Original: $112.2 \times 20 = 2244$ Correct answer: $2244 \times 20 = 44880$
Booklet B Q7	$B : W : C$ $6 : 1 : 2$ $6 + 1 + 2 = 9$ $189 \times 9 = 1701$
Booklet B Q8	$90\,000 \times 102/100 = \$91\,800$
Booklet B Q9	1 children : $160 \div 4 = 40$ Total : $20 \times 40 = 800$
Booklet B Q10	43°
Booklet B Q11	$PRS : 64 - 27 = 37$ $SPR : 180 - 77 - 37 = 66^\circ$

Q27	
Q28	$ED : 20 - 8 = 12$ $ADE : 12 \times 8 \times \frac{1}{2} = 48\text{cm}^2$
Q29	$14 \times 20 \times 10 = 2800$ $2.8 + 1.05 = 3.850$ $3\text{L } 850\text{ml}$
Q30	$Y : 180 - 70 - 90 = 20$ $X : 90 - 20 - 20 = 50^\circ$

PAPER 2

Q1	$A : 45 \times (26 + 14) \times \frac{1}{2} = 900$ $B : 25 \times 26 \times \frac{1}{2} = 325$ $C : 14 \times (25 + 45) \times \frac{1}{2} = 490$ shaded triangle : total $(45 + 25) \times (26 + 14) = 2800$ $2800 - 900 - 325 - 490 = 1085 \text{ cm}^2$
Q2	Total $- 2.80 + 1.80 + 0.90 = \$5.50$
Q3	$u : 1230 \div 3 = 410$ John : $410 - 340 = \$70$
Q4	Total : $12.20 \times 2 = 24.40$ $2u : 24.40 - 2.40 = 220$ $u : 22 \div 2 = 11$ James : $11 + 2.40 = \$13.40$
Q5	$a + b = 180 - 73 = 107$ $d + c = 360 - 73 = 287$ total : $107 + 287 = 394^\circ$
Q6	$u : 210 \div 3 = 70$ $5u : 70 \times 5 = 350$ $u : 350 \div 4 = 87.5$ $7u : 87.5 \times 7 = 612.5 \text{ kg}$
Q7	$X : (180 - 37) \div 2 = 71.5^\circ$ $Y : 180 - 52 - 71.5 = 56.5$ $ABD : 180 - 63 - 56.5 = 60.5^\circ$
Q8	C : A 4 : 9 28 : 63 B : G : Total 3 : 4 : 7 12 : 16 : 28 $u : 64 \div 16 = 4$ adults : $63 \times 4 = 252$
Q9	$9r + 1b = 2002 \text{ g}$ $14r + 1b = 2642 \text{ g}$ $14 - 9 = 5$ 5 ring files : $2642 - 2002 = 640$ 1 ring file : $640 \div 5 = 128$ 9 ring file : $128 \times 9 = 1152$ 1 box : $2002 - 1152 = 850$ $850 \text{ g} = 0.85 \text{ kg}$

Q10	$64\text{cm}^2 = 8 \times 8$ $L + b : 20 \div 2 = 10$ $u : 10 \div 5 = 2$ $\text{area} : 4 \times 6 = 24$ $\text{length} : 3 \times 2 = 6$ $\text{breadth} : 2 \times 2 = 4$ $6 \times 4 = 24\text{cm}^2$
Q11	$\text{Volume} : 55 \times 28 \times 15 = 23100$ $\text{Remaining} : 23100 \times \frac{3}{4} = 17325$ $17325\text{ml} = 17\ell\ 325\text{ml}$
Q12	$4p = 3b$ $5p = 3\frac{3}{4}b$ $1 \text{ book} : 112 \div 8\frac{3}{4} = 12.80$ $3 \text{ books} : 12.80 \times 3 = 38.40$ $1 \text{ pen} : 38.40 \div 4 = \9.60
Q13	a) $\text{cost} : 28 + 10 = 38$ $38 - 28 = 10$ $1u : 10 \div 2 = 5$ $5 + 2 = 7$ b) $12 \times 2 = 24$ $38 - 24 = 14$ $14 - 12 = 2$ $14 \div 2 = 7$ $14 \times 7 = \$98$
Q14	a) $0.3 \times 25 = 7.5$ $8 \times 24 = 192$ $192 + 7.5 = 199.5\text{m}$ b) $\text{distance} : 199.5 - (21 \times 0.3) = 193.2$ $\text{new distance} : 193.2 \div 20 = 9.66\text{m}$
Q15	$R : G : B : \text{Total}$ $8 : 1$ $28 : 64 : 8 : 100$ $\text{difference} : 64 - 28 = 36$ $1u : 468 \div 36 = 13$ $\text{red beans} : 13 \times 28 = 364$
Q16	a) $3\text{km} : 1 \times 3 = 3$ $1.4\text{km} : 0.45 \times 2 = 0.9$ $\text{Total} : 0.9 + 3 + 12 = \15.90 b) (i) SaSamoveit $(\text{ii}) (\text{Fast Express}) 5\text{km} - 1.20 \times 5 = 6$ $3.7\text{km} : 0.7 \times 4 = 2.8$ $\text{total} : 6 + 2.8 + 9 = 17.80$ $(\text{SoSamoveit}) 3\text{km} : 1 \times 3 = 3$ $5.7 : 0.45 \times 6 = 2.7$ $\text{total} : 3 + 2.7 + 12 = 17.70$ (bii) \$0.10
Q17	$\frac{1}{2} : 1260 + 200 = 1460$ $\text{Wednesday} : 1460 \times 2 = 2920$ $\frac{5}{9} : 2920 + 340 = 3260$ $\text{Tuesday} : 3260 \times 9/5 = 5868$ $1/3 : 5868$ $\text{total} : 5868 \times 3/1 = 17604\ell$

RULANG PRIMARY SCHOOL EOY PAPER

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

1. In 9 568 327, the value of the digit 6 is ? .

What is the missing number in the box above?

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

2. Round 239 648 to the nearest thousand.

- (1) 240 000
- (2) 239 600
- (3) 239 000
- (4) 200 000

3. Find the value of $408\,000 \div 600$.

- (1) 68
- (2) 408
- (3) 680
- (4) 4080

4. Express $\frac{3}{20}$ as a decimal.

- (1) 0.03
- (2) 0.15
- (3) 0.3
- (4) 1.5

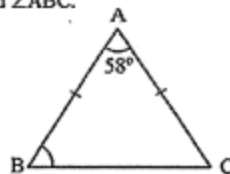
5. $5.2 \div 100 =$?

What is the missing number in the box above?

- (1) 0.052
- (2) 0.52
- (3) 52
- (4) 520

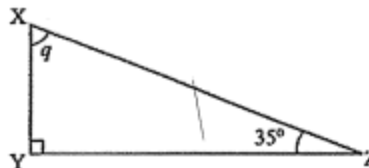
6. In the figure below, ABC is an isosceles triangle. Find $\angle ABC$.

- (1) 58°
- (2) 61°
- (3) 64°
- (4) 122°



7. In the figure below, XYZ is a right-angled triangle. Find $\angle q$.

- (1) 55°
- (2) 70°
- (3) 125°
- (4) 145°



8. 4% of $20 = \boxed{?}$

What is the missing number in the box above?

- (1) 0.08
- (2) 0.8
- (3) 8
- (4) 80

9. Find the average of 0, 16, 34 and 34.

- (1) 84
- (2) 34
- (3) 28
- (4) 21

10. The average mass of 6 books is 18.36 kg. What is the total mass of the 6 books?

- (1) 3.06 kg
- (2) 3.6 kg
- (3) 108.16 kg
- (4) 110.16 kg

11. Bala bought two bags. The average cost of the two bags was \$360. One of the bags cost \$198. What was the cost of the other bag?

(1) \$58
 (2) \$162
 (3) \$378
 (4) \$522

12. $\frac{3}{5} \times \frac{2}{9} = \boxed{?}$

What is the missing fraction in the box above?

(1) $\frac{1}{5}$
 (2) $\frac{2}{15}$
 (3) $\frac{2}{3}$
 (4) $\frac{5}{14}$

13. Find the value of $84 - 7 \times 8 + 28 \div 4$.

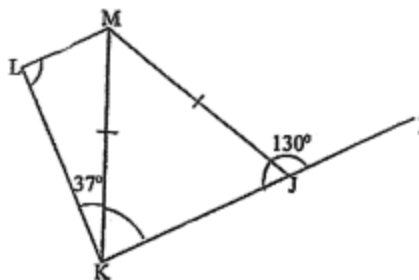
(1) 21
 (2) 35
 (3) 161
 (4) 623

14. Mrs Tan had $\frac{4}{5}$ kg of flour. She used $\frac{2}{4}$ of it to bake cookies. How much flour did she have left?

(1) $\frac{1}{20}$ kg
 (2) $\frac{1}{5}$ kg
 (3) $\frac{3}{5}$ kg
 (4) $\frac{1}{4}$ kg

15. In the figure below, JKLM is a trapezium, JKM is an isosceles triangle and IJK is a straight line. Find $\angle KLM$.

- (1) 50°
(2) 87°
(3) 90°
(4) 93°



End of Paper 1 Booklet A

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16. Write five million, sixty-two thousand and eight in numerals.

Ans: _____

17. Multiply 947 by 300. What is the answer?

Ans: _____

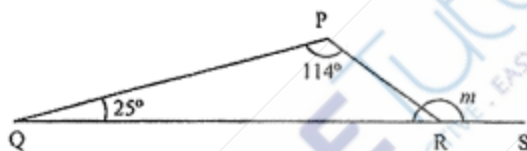
18. What is 3006 g in kilogrammes? Express your answer as a decimal.

Ans: _____ kg

19. Mr Lee had a rope which was 4 m long. He cut it into 6 equal pieces. What was the length of each piece of rope? Express your answer as a fraction in its simplest form.

Ans: _____ m

20. In the figure below, PQR is a triangle and QRS is a straight line. Find $\angle m$.



Ans: _____ °

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

21. The ratio of John's mass to Mary's mass is 4 : 3. John's mass is 48 kg. What is Mary's mass?

Ans: _____ kg

22. Mrs Lee has 24 apples, 20 oranges and 26 pears. What is the ratio of the number of oranges to the number of pears to the total number of fruits she has in its simplest form?

Ans: _____

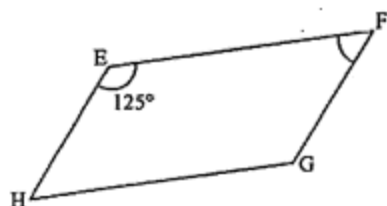
23. Mr Tan had 300.5 kg of rice. He packed them equally into 50 packets. How much rice was there in each packet?

Ans: _____ kg

24. The length of a cuboid is 18 cm and its breadth is 9 cm. Its height is $\frac{1}{3}$ of its length.
 What is the volume of the cuboid?

Ans: _____ cm^3

25. In the figure below, EFGH is a parallelogram. Find $\angle EFG$.



Ans: _____ $^\circ$

26. (a) Express $\frac{4}{5}$ as a percentage.
 (b) Express 7.5% as a decimal.

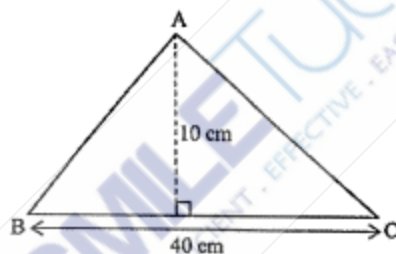
Ans: (a) _____ %

(b) _____

27. Mr Yeo bought a laptop for \$3235. He paid \$1435 first and the remaining amount in monthly payments of \$300 each. How many months did he take to pay the remaining amount?

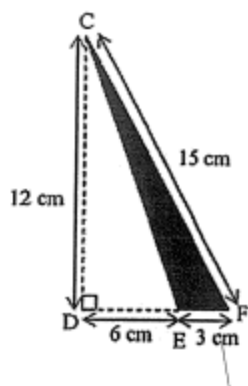
Ans: _____

28. Find the area of triangle ABC.



Ans: _____ cm^2

29. Find the area of triangle CEF.



Ans: _____ cm^2

30. Mary and Lina had some stickers. After Lina and Mary each gave away 28 stickers, Lina had 3 times as many stickers as Mary.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
Lina had more stickers than Mary at first.			
Mary and Lina had 232 stickers in the end.			
Lina had 85 more stickers than Mary in the end.			

End of Paper 1

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)

1. Mr Koh is 37 years old. His son is 4 years old. In how many years' time will Mr Koh be 4 times as old as his son?

Ans: _____

2. The mass of a box containing 30 similar books is 36.8 kg. The mass of an identical box containing 15 such books is 18.8 kg. What is the mass of a book?

Ans: _____ kg _____ g

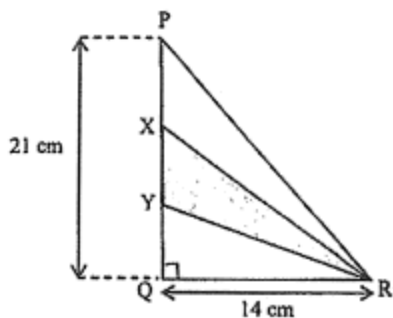
3. The table below shows the amount of money saved by four children.

Name	Amount Saved
Anne	\$280
Betty	\$320
Calvin	\$304
Derek	?

The average amount of money the four children saved was \$295. How much did Derek save?

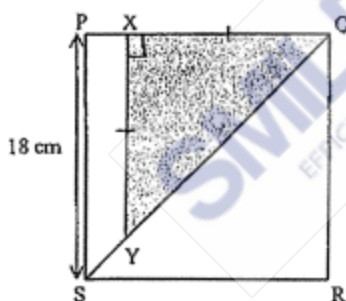
Ans: \$ _____

4. In the figure below, PQ is 3 times as long as XY. PQ is 21 cm long while QR is 14 cm long. Find the area of the shaded triangle XYR.



Ans: _____ cm²

5. PQRS is a square of side 18 cm. The ratio of the length of PX to the length of XQ is 1:5. The length of XQ is equal to the length of XY. Find the area of the shaded triangle QXY.



Ans: _____ cm²

For Questions 6 to 17, 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.
(45 marks)

6. The table below shows the ticket prices at a cinema.

Types of Tickets	Ticket Price (Weekdays)	Ticket Price (Weekends)
Adults	\$9 per ticket	\$14.50 per ticket
Children (12 years old and below)	\$7 per ticket	
Senior Citizens (60 years old and above)	\$4.50 per ticket	

Mr Ng wants to buy 2 adult tickets, 2 senior citizen tickets and 3 children tickets to watch a movie on a Tuesday evening. How much will he have to pay for all the tickets?

Ans: _____ [3]

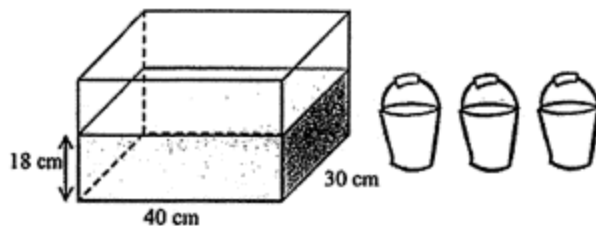
7. Leo and Amelia had the same amount of money at first. After Leo spent $\frac{3}{4}$ of his money and Amelia spent $\frac{1}{3}$ of her money, Amelia had \$15 more than Leo. How much money did they have altogether at first?



Ans: _____ [3]

8. A rectangular tank measuring 40 cm by 30 cm was filled with water to a height of 18 cm. Jack poured some of the water from the tank into 3 identical pails until they are completely full. The height of the water in the tank then dropped to 5 cm.

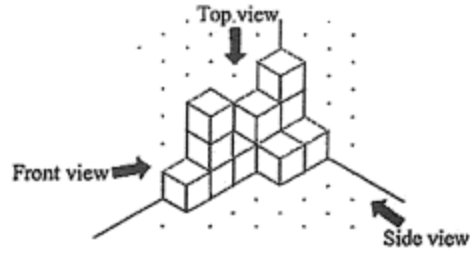
- (a) Find the volume of water in the tank at first.
 (b) Find the capacity of each pail.



Ans: (a) _____ [1]

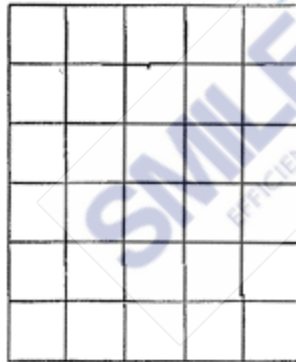
(b) _____ [2]

9. The solid below is built using 1-cm cubes.
(a) What is the volume of the solid?

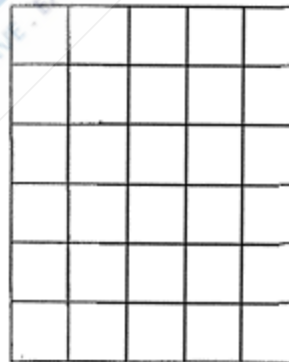


Ans: (a) _____ [1]

- (b) Draw the front and top views of the solid on the square grids below. [2]

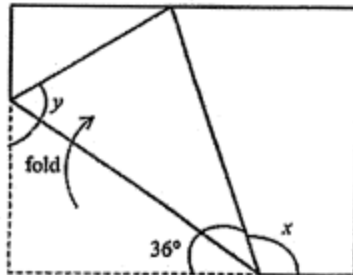


Front View



Top View

10. A rectangular piece of paper is folded as shown below.
 (a) Find $\angle x$.
 (b) Find $\angle y$.



Ans: (a) _____ [2]

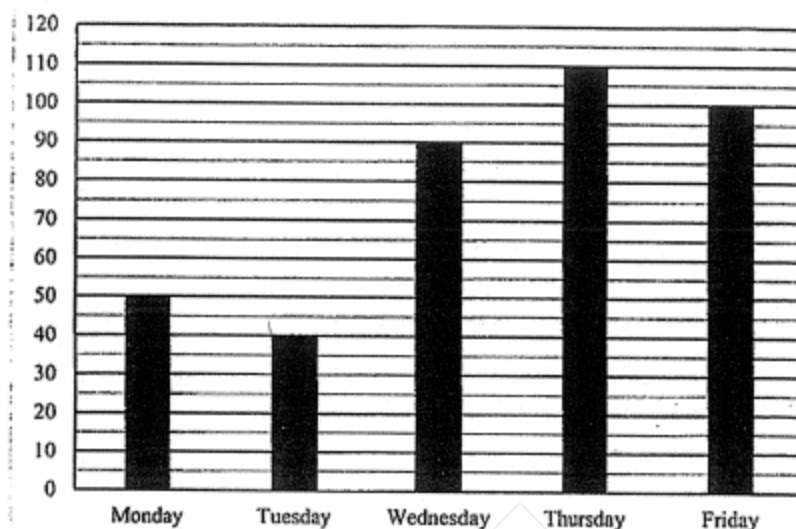
(b) _____ [1]

11. At a supermarket, 200 g of grapes cost \$4.50. Apples are sold at 5 for \$3.60. How much will 600 g of grapes and 30 apples cost altogether?



Ans: _____ [3]

13. The table below shows the number of cupcakes sold by Mr Lim from Monday to Friday.



- (a) What was the average number of cupcakes sold by Mr Lim from Monday to Friday?
- (b) The average number of cupcakes Mr Lim sold from Monday to Sunday was 120 cupcakes. How many cupcakes did he sell altogether on Saturday and Sunday?

Ans: (a) _____ [2]

(b) _____ [2]

14. Mr Ahmad won \$8888 in a lucky draw. He gave 40% of it to his parents and 25% of it to his wife. He bought a laptop with the rest of the money.
- (a) How much money did he pay for the laptop?
- (b) What was the difference in the amount of money given to his parents and the amount of money he paid for the laptop?



Ans: (a) _____ [2]

(b) _____ [2]

15. Karen spent \$10 on 2 exercise books and 8 pens. She wanted to buy another exercise book but was short of \$0.60. Instead, she bought 1 more pen and had \$0.40 left.
- (a) What was the cost of an exercise book?
(b) How much money did Karen have at first?



Ans: (a) _____ [3]

(b) _____ [2]

17. Kelly, Jennifer and Sarah donated some money to charity. Jennifer and Sarah donated $\frac{5}{9}$ of the amount that Kelly donated. Jennifer donated $\frac{1}{3}$ of the amount that Sarah donated. Jennifer donated \$40 less than Sarah.
- (a) How much money did Jennifer and Sarah donate altogether?
- (b) How much more money than Sarah did Kelly donate?



Ans : (a) _____ [3]

(b) _____ [2]

END OF PAPER

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ANSWER SHEET

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	3	2	1	2	1	2	4	4
Q 11	Q12	Q13	Q14	Q15					
4	2	2	2	4					


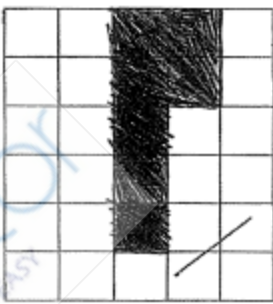
PAPER 1 BOOKLET B

Q16)	5062008
Q17)	284100
Q18)	3.006kg
Q19)	$4 \div 6 = \frac{4}{6}$ $= \frac{2}{3} \text{ m}$
Q20)	$180 - 41 = 139^\circ$
Q21)	$48 \div 4 = 12$ $12 \times 3 = 36\text{kg}$
Q22)	$20 + 24 + 26 = 70$ O : P : TF $20 : 26 : 70$ $10 : 13 : 35$
Q23)	$300.5 \div 50 = 300.5 \div 10 \div 5$ $= 30.05 \div 5$ $= 6.01\text{kg}$
Q24)	$18 \div 3 = 6$ $6 \times 18 \times 9 = 108 \times 9$ $= 972\text{cm}^3$

Q25)	$180 - 125 = 55^\circ$									
Q26)	a) $\frac{4}{5} = \frac{80}{100}$ $= 80\%$ b) $\frac{7.5}{100} = 0.075$									
Q27)	$3235 - 1435 = 1800$ $1800 \div 300 = 6\text{months}$									
Q28)	$\frac{1}{2} \times 10 \times 40 = 200\text{cm}^2$									
Q29)	$\frac{1}{2} \times 12 \times 3 = 18\text{cm}^2$									
Q30)	<table border="1"><tr><td>$\sqrt{\quad}$</td><td></td><td></td></tr><tr><td></td><td>$\sqrt{\quad}$</td><td>$\sqrt{\quad}$</td></tr><tr><td></td><td>$\sqrt{\quad}$</td><td></td></tr></table>	$\sqrt{\quad}$				$\sqrt{\quad}$	$\sqrt{\quad}$		$\sqrt{\quad}$	
$\sqrt{\quad}$										
	$\sqrt{\quad}$	$\sqrt{\quad}$								
	$\sqrt{\quad}$									

PAPER 2

Q1)	$37 - 4 = 33$ $33 \div 3 = 11$ $11 \times 4 = 44$ $44 - 37 = 7\text{years}$
Q2)	$36.8 - 18.8 = 18$ $18 \div 15 = 1.2$ $0.2 \times 1000 = 200$ Ans: 1kg 200g
Q3)	$280 + 320 + 304 = 904$ $295 \times 4 = 1180$ $1180 - 904 = \$276$
Q4)	$21 \div 3 = 7$ $\frac{1}{2} \times 14 \times 7 = 49\text{cm}^2$
Q5)	$5 + 1 = 6$ $18 \div 6 = 3$ $3 \times 5 = 15$ $\frac{1}{2} \times 15 \times 15 = 112.5\text{cm}^2$
Q6)	$9 \times 2 = 18$ $7 \times 3 = 21$ $4.50 \times 2 = 9$ $18 + 21 + 9 = \$48$

Q7)	$\frac{3}{4} = \frac{9}{12}$ $\frac{1}{3} = \frac{4}{12}$ $9 - 4 = 5$ $15 \div 5 = 3$ $3 \times 12 = 36$ $36 \times 2 = \$72$
Q8)	a) $18 \times 40 \times 30 = 21600 \text{ cm}^3$ b) $5 \times 40 \times 30 = 6000$ $21600 - 6000 = 15600$ $15600 \div 3 = 5200 \text{ cm}^3$
Q9)	a) 12 cm^3 b) <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Front View</p> </div> <div style="text-align: center;">  <p>Top View</p> </div> </div>
Q10)	a) $180 - 36 - 36 = 108^\circ$ b) $180 - 90 - 36 = 54^\circ$
Q11)	$600 \div 200 = 3$ $30 \div 5 = 6$ $3 \times 4.50 = 13.50$ $6 \times 3.60 = 21.60$ $13.50 + 21.60 = \$35.10$
Q12)	a) $120 - 40 = 80$ $80 \div 20 = 4\ell$ b) $4 \times 4 = 56$ $56 + 40 = 96$ $\frac{96}{40} = \frac{4}{5}$

Q13)	a) $50 + 40 + 90 + 110 + 100 = 390$ $390 \div 5 = 78$ cupcakes b) $120 \times 7 = 840$ $840 - 390 = 450$ cupcakes
Q14)	a) $100 - 40 - 25 = 35$ $\frac{35}{100} \times 8888 = \3110.80 b) $\frac{40}{100} \times 8888 = 3555.20$ $3555.20 - 3110.80 = \$444.40$
Q15)	a) $0.60 + 0.40 = 1$ $1 \times 2 = 2$ $10 - 2 = 8$ $8 \div 10 = 0.80$ $0.80 + 1 = \$1.80$ b) $10 + 0.80 + 0.40 = \$11.20$
Q16)	a) $180 - 65 - 65 = 50$ $180 - 76 - 50 = 54^\circ$ b) $180 - 54 - 42 = 84$ $180 - 84 - 65 = 31^\circ$
Q17)	a) $3 - 1 = 2$ $40 \div 2 = 20$ $20 \times 4 = \$80$ b) $80 \div 20 = 4$ $4 \times 15 = 60$ $4 \times 36 = 144$ $144 - 60 = \$84$

SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)

SA2 PAPER

Booklet A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

1. Round off 42 808 to the nearest hundred.
 - (1) 42 000
 - (2) 42 800
 - (3) 42 900
 - (4) 43 000

2. What is the value of 20 thousands, 12 hundreds and 5 tens?
 - (1) 320 050
 - (2) 210 205
 - (3) 32 050
 - (4) 21 250

3. Express $3\frac{3}{4}$ as a percentage.
 - (1) 300.34%
 - (2) 300.75%
 - (3) 334%
 - (4) 375%

4. There are 40 students in a class. 16 students wear glasses. What is the ratio of students who do not wear glasses to the total number of students?
 - (1) 2 : 3
 - (2) 2 : 5
 - (3) 3 : 5
 - (4) 3 : 10

5. Arrange the following from the largest to the smallest.

2.5	$\frac{3}{5}$	$\frac{3}{2}$
-----	---------------	---------------

Largest

Smallest

(1) 2.5 , $\frac{3}{5}$, $\frac{3}{2}$

(2) 2.5 , $\frac{3}{2}$, $\frac{3}{5}$

(3) $\frac{3}{2}$, 2.5 , $\frac{3}{5}$

(4) $\frac{3}{5}$, $\frac{3}{2}$, 2.5

6. 200 bags cost \$7040. What is the cost of 1 bag?

(1) \$3.52

(2) \$7.40

(3) \$35.20

(4) \$70.40

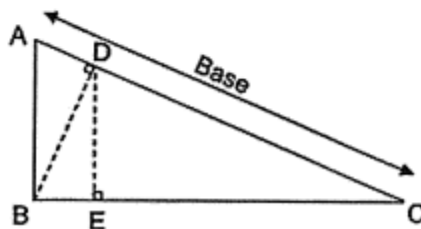
7. Identify the height of Triangle ABC given that the base is AC.

(1) AB

(2) BC

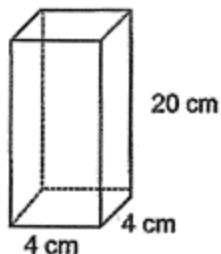
(3) BD

(4) DE



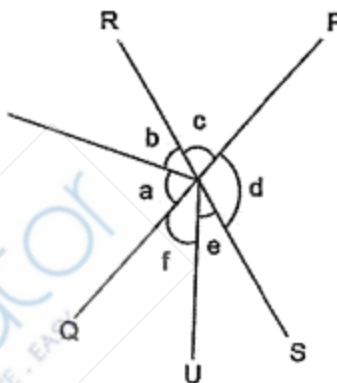
8. What is the volume of the cuboid?

- (1) 80 cm^3
- (2) 160 cm^3
- (3) 320 cm^3
- (4) 400 cm^3



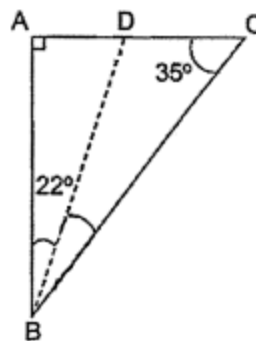
9. PQ and RS are straight lines. Which of the following is **false**?

- (1) $\angle c = \angle e + \angle f$
- (2) $\angle a + \angle b = \angle d + \angle e$
- (3) $\angle a + \angle b + \angle c = 180^\circ$
- (4) $\angle c + \angle d = 180^\circ$



10. Figure ABC is a triangle. $\angle ABD$ is 22° and $\angle ACB$ is 35° . Find $\angle DBC$.

- (1) 33°
- (2) 55°
- (3) 57°
- (4) 68°



11. Peter made 12 bracelets in the morning and 24 bracelets in the afternoon. He sold all the bracelets at 2 for \$12. Which number sentence represents the total amount of money collected by Peter?

- (1) $12 + 24 + 12 \times 2$
- (2) $(12 + 24) + 2 \times 12$
- (3) $12 + 24 + 2 \times 12$
- (4) $(12 + 24) \times 2 + 12$

12. A pattern is formed using the digits 1, 2 and 0. The first 17 digits are shown below. What is the sum of the first 35 digits?

1	2	0	0	1	1	1	2	0	0	1	1	1	2	0	0	1
1 st	2 nd	3 rd														

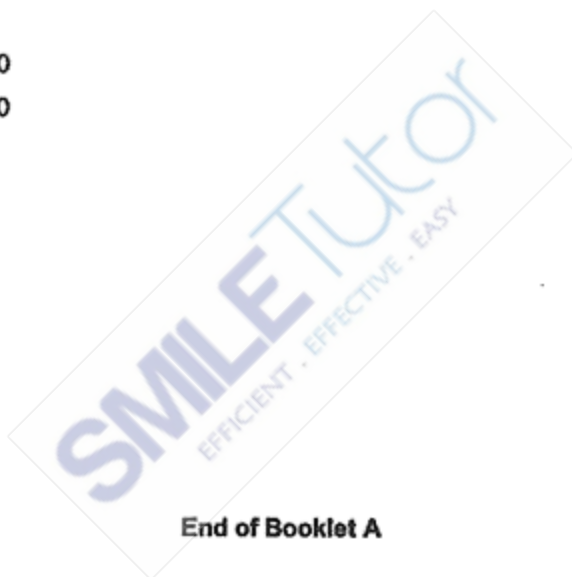
- (1) 25
 - (2) 29
 - (3) 35
 - (4) 39
13. A pencil is 5.4 cm long. A pen is 3 times as long as the pencil. What is the total length of the pen and pencil?
- (1) 15.12 cm
 - (2) 16.2 cm
 - (3) 20.16 cm
 - (4) 21.6 cm

14. There are 42 cars and motorcycles in a carpark. Which of the following is not a possible ratio of the number of cars to the number of motorcycles in the carpark?

- (1) 6 : 7
- (2) 5: 2
- (3) 3 : 4
- (4) 3: 11

15. A salesman earns \$0.50 for every 7 pens sold. He earns an extra \$1 for every 20 pens sold. How much will he earn if he sold 142 pens?

- (1) \$7.00
- (2) \$8.00
- (3) \$10.00
- (4) \$17.00



End of Booklet A

Booklet B

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16. Express 1.05 as a mixed number in its simplest form.

Ans: _____

17. Use all the digits to form a number closest to 90 000.

7 8 9 2 1

Ans: _____

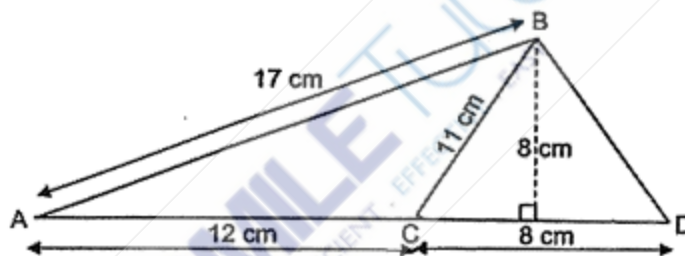
18. 5 boys shared 6 pizzas. What fraction of the pizzas did each boy get?

Ans: _____

19. Mr Tan was given 124 sweets. He packed all of them into bags of 8 with some left over. How many sweets were not packed into the bags?

Ans: _____

20. The diagram below is not drawn to scale. Find the area of triangle ABC.



Ans: _____ cm^2

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(20 marks)**

21a. Convert to grams.

$$3.085 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

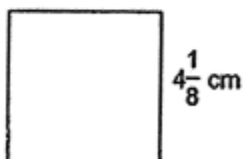
Ans: g

21b. Convert to kilometres.

$$5020 \text{ m} = \underline{\hspace{2cm}} \text{ km}$$

Ans: km

22. Find the perimeter of square below. Give your answer as a mixed number in its simplest form.



Ans: cm

23. A tin of milk powder weighs 2.5 kg. Mrs Tan bought 10 tins of milk powder and Mrs Farhan bought 20 tins of milk powder. What is the total mass of the tins of milk bought by Mrs Tan and Mrs Fahan?

Ans: _____ kg

24. A basket contains red, blue and yellow balls. The ratio of the number of red balls to the total number of balls is 2 : 5. The ratio of the number of blue balls to the number of yellow balls is 1 : 5. What is the ratio of the number of red balls to the number of blue balls?

Ans: _____

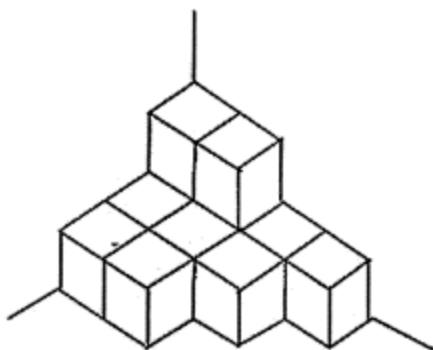
25. The three sides of a triangle are in the ratio 2 : 3 : 4. The perimeter of the triangle is 135 cm. What is the length of the shortest side of the triangle?

Ans: _____ cm

26. 60 pupils took part in a Math Olympiad Competition. 24 of them won the gold award. What percentage of the students won the gold award?

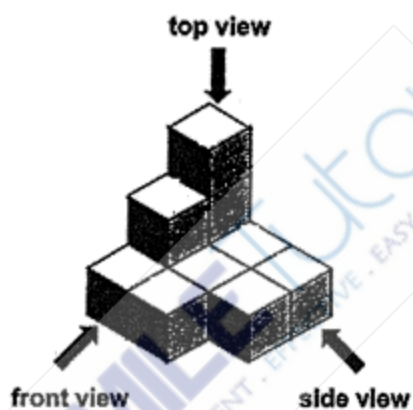
Ans: _____ %

27. What is the least number of unit cubes that must be added to the figure below to form a cube?

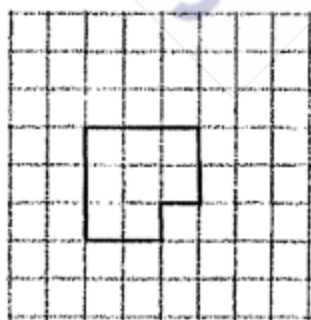


Ans: _____

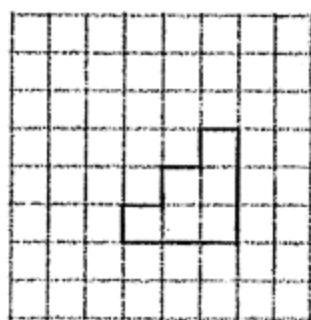
28. Oliver stacked 11 unit cubes to form the solid figure below.



Draw the top view and the side view of the solid on the grids below.

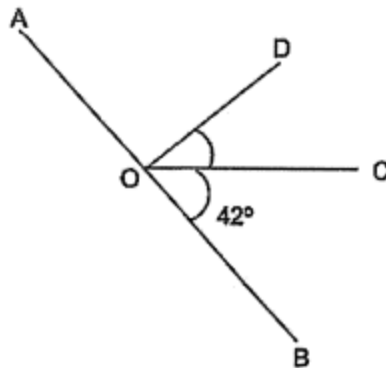


Top View



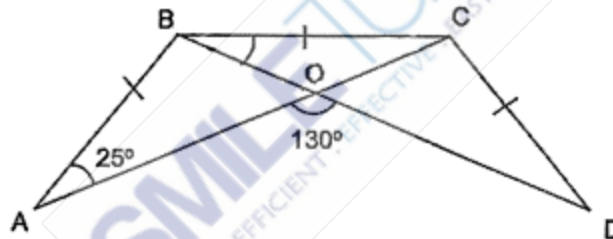
Side View

29. In the figure, not drawn to scale, AOB is a straight line.
 $\angle AOD$ is 2 times of $\angle DOC$. Find $\angle DOC$.



Ans: _____°

30. In the figure below, ABC and BCD are two identical triangles.
 Given that $AB = BC = CD$, find $\angle OBC$.



Ans: _____°

End of Booklet B

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

1. What is the missing number in the equation below?

$$\square + 18 \times 5 + 3 - 2 = 32$$

Ans: _____

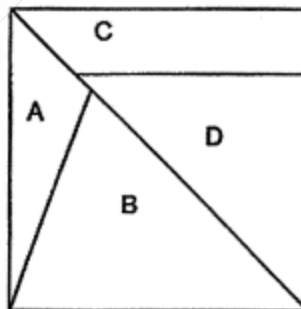
2. Kelly has a ribbon of length $\frac{5}{6}$ m. She used $\frac{1}{4}$ m to make a bow and $\frac{1}{2}$ of it to wrap a present. How much ribbon was left?

Ans: _____ m

3. Mrs Jacobs is now 38 years old. In 4 years' time, she will be 6 times as old as her son. How old is her son now?

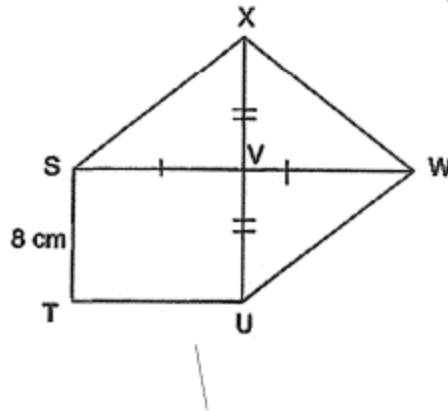
Ans: _____

4. The diagram below shows a square. The ratio of area A to area B is 2 : 5.
 The ratio of area C to area B is 3 : 5.
 Find the ratio of area A to area D. (Give your answer in the simplest form.)



Ans: _____

5. The perimeter of rectangle $STUV$ is 36 cm. XVU and SVW are straight lines. Line ST is 8 cm. Find the area of triangle SWX .



Ans: _____ cm^2

For questions 6 to 17, 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. (45 marks)

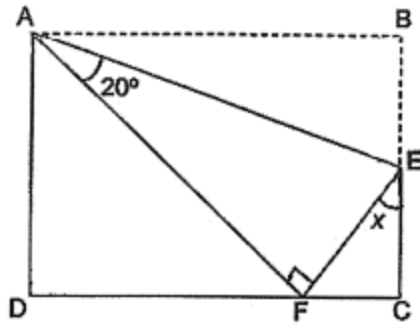
6. Mr Ishak paid a total of \$447.60 for 3 tables and 9 chairs. Each chair cost \$15.20 less than a table. Find the cost of a chair.

Ans: \$ _____ [3]

7. Ronny had some money. He spent $\frac{1}{5}$ of it on a watch and $\frac{3}{8}$ of the remainder on some books. He had \$105 left. How much money did he have at first?

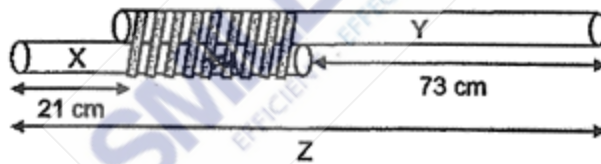
Ans: _____ [3]

8. The figure below shows a rectangle ABCD. It is folded along line AE as shown below. Given that $\angle EAF$ is 20° , find $\angle x$.



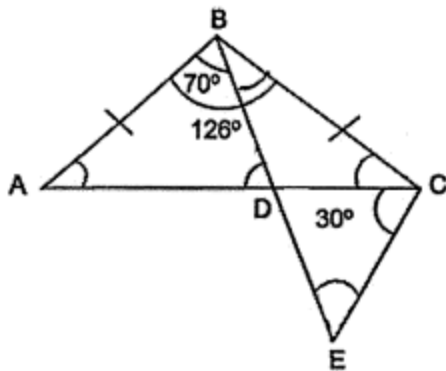
Ans: _____ [3]

9. Two rods, X and Y were tied to form a longer rod, Z as shown below. The ratio of the length of Rod X to the length of Rod Y is 3 : 5. Find the length of Rod Z.



Ans: _____ [3]

10. In the figure, not drawn to scale, ABC is an isosceles triangle.
BDE is a straight line. $\angle ABC$ is 126° , $\angle ABD$ is 70° and $\angle DCE$ is 30°
(a) Find $\angle BCD$.



Ans: (a) _____ [1]

- (b) Find $\angle CED$.

Ans: (b) _____ [2]

11. Anthony has 70 more toy cars than Bala. $\frac{1}{4}$ of Anthony's toy cars is 25 more than $\frac{1}{5}$ of Bala's toy cars. How many toy cars do they have altogether?



Ans: _____ [4]

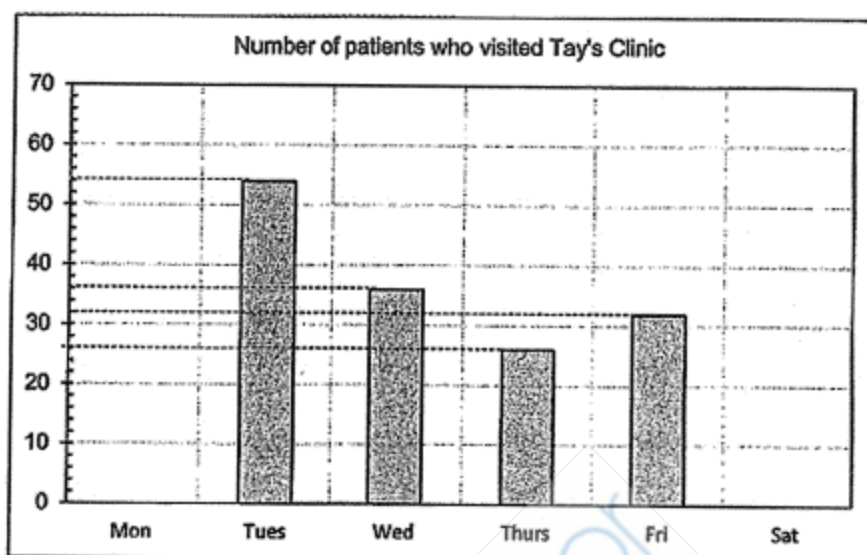
12. The usual price of a dress is \$118.75. Mrs Tan was given a 20% discount.
(a) How much is the discount?

Ans: (a) _____ [1]

- (b) Mrs Tan paid an additional 7% of GST on the discounted price of the dress. How much did she pay for the dress including the GST?

(b) _____ [3]

13. The graph shows the number of patients visiting Tay's clinic on a certain week. The clinic was closed on Monday.



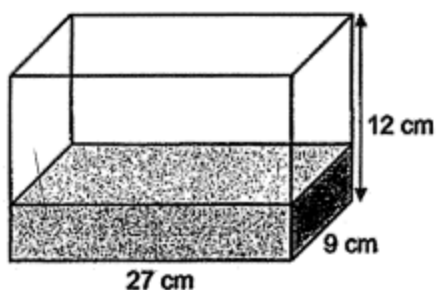
- (a) What was the total number of patients from Tuesday to Friday?

Ans: _____ [2]

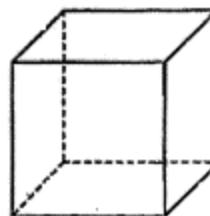
- (b) Given that the average number of patients from Monday to Saturday is 34, how many patients were there on Saturday?

Ans: _____ [2]

14. Tank A is 27 cm by 9 cm by 12 cm and it is $\frac{1}{4}$ - filled with water. All the water from Tank A is poured into container B and it filled container B to the brim. Given that all sides of container B are equal, what is the base area of container B?



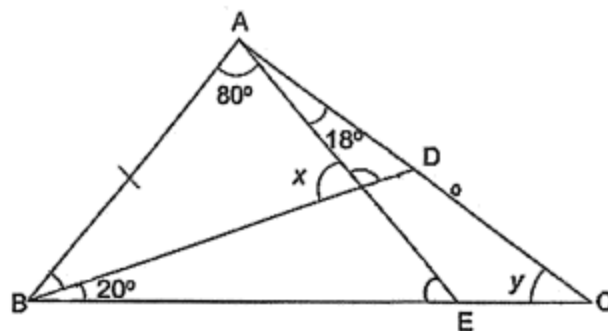
Tank A



Container B

Ans: _____ [4]

15. In the figure, not drawn to scale, $AB = AE$ and BD and BEC are straight lines.





(a) Find $\angle x$.

Ans: _____ [2]

(b) Find $\angle y$.

Ans: _____ [2]

16. Janice and Kelly bought some cups from a stall. The cups are sold in sets of 2 and 3 cups as shown below.

Large cups	Small cups
	
2 for \$12	3 for \$15

- (a) Janice bought an equal number of large and small cups. She spent \$24 more on large cups than small cups. How many cups did she buy altogether?

Ans: (a) _____ [3]

- (b) Kelly bought 6 large cups and had \$50 left. She bought as many small cups as she could with the remaining money. What fraction of the cups she bought were small cups?

Ans: (b) _____ [2]

17. Tory spent $\frac{1}{4}$ of her money on 5 books and 15 sheets of stickers. The cost of each book is 9 times the cost of each sheet of sticker. She bought more books with the remaining amount of money.
- (a) How many books did she buy with the remaining amount of money?

Ans (a): _____ [2]

- (b) Given that Tory spent \$231 more on all the books than all the stickers. What is the cost of 1 sheet of sticker?

Ans (b): _____ [3]

End of Paper 2

~ Please check your work thoroughly. ~

ANSWER SHEET

SINGAPORE CHINESE GIRLS' SCHOOL
PRIMARY 5 MATHEMATICS
2022 SEMESTRAL ASSESSMENT 2
Answer Key

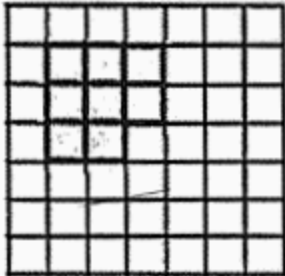
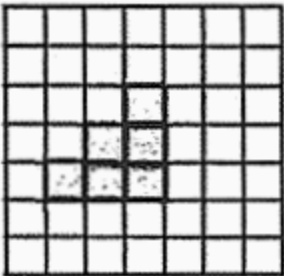
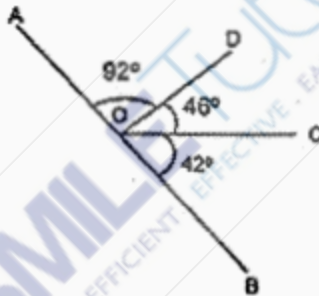
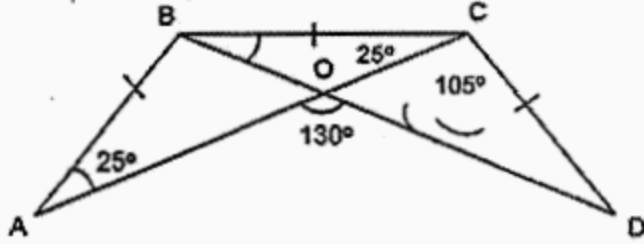
Paper 1
Booklet A

1	2	4	3	7	3	10	1	13	4
2	4	5	2	8	3	11	2	14	1
3	4	6	3	9	2	12	2	15	4

Booklet B

16	$1\frac{1}{20}$
17	89 721
18	$\frac{6}{6}$ or $1\frac{1}{5}$
19	$124 \div 8 = 15 \text{ R } 4$
20	48
21a	3085
21b	5.02 or 5.020
22	$4\frac{1}{8} \times 4 = 16\frac{1}{2}$ OR $4\frac{1}{8} + 4\frac{1}{8} + 4\frac{1}{8} + 4\frac{1}{8} = 16\frac{1}{2}$
23	$2.5 \times 30 = 2.5 \times 3 \times 10 = 7.5 \times 10 = 75$
24	<div style="display: flex; justify-content: space-between;"> <div> <p>R : Total: B+Y</p> <p>2 : 5 : 3</p> <p>4 : 10 : 6</p> <p>R : B</p> <p><u>4 : 1</u></p> </div> <div> <p>B : Y : B + Y</p> <p>1 : 5 : 6</p> </div> </div> <p>OR</p> <div style="display: flex; justify-content: space-between;"> <div> <p>R : Total: B+Y</p> <p>2 : 5 : 3</p> <p>R : B</p> <p>2 : 0.5</p> <p>4 : 1</p> </div> <div> <p>B : Y : B + Y</p> <p>0.5 : 2.5 : 3</p> </div> </div>
25	<p>Perimeter, $9u = 135 \text{ cm}$</p> <p>$1u = 135 \div 9 = 15 \text{ cm}$</p> <p>Shortest side, $2u = 15 \text{ cm} \times 2 = 30 \text{ cm}$</p>



26	Percentage $\frac{24}{60} \times 100\% = 40\%$
27	<p>Total no of needed = $4 \times 4 \times 4 = 64$</p> <p>Least no of cubes needed = $64 - 11 = 53$</p> <p>OR</p> <p>Least no of cubes needed = $16 + 16 + 14 + 7 = 53$</p>
28	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Top View Side View </div>
29	<p>$\angle DOC = \frac{180^\circ - 42^\circ}{3}$</p> <p>$= 48^\circ$</p> 
30	<p>$\angle OBC = 180^\circ - 130^\circ - 25^\circ$</p> <p>$= 25^\circ$</p> <p>OR Indicate that $\angle OBC = \angle BAO = \angle CDB$</p> 

Paper 2 : 60 marks
Mark Scheme
Q1)

$$\underline{\quad} + 18 \times 5 + 3 - 2 = 32$$

$$= \underline{\quad} + 90 + 3 - 2 = 32$$

$$= \underline{\quad} + 30 - 2 = 32$$

$$= \underline{\quad} + 28 = 32$$

$$\text{Missing number} = 32 - 28 = \underline{4}$$

Q2)
Method 1

$$\text{Left after making bow} = \frac{5}{6} - \frac{1}{4} = \frac{7}{12}$$

$$\text{Wrap present} = \frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$$

$$\text{Ribbon left} = \frac{7}{12} - \frac{5}{12} = \frac{1}{6} \text{ m}$$

Method 2

$$\text{Wrap present} = \frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$$

$$\text{Total used} = \frac{1}{4} + \frac{5}{12} = \frac{2}{3}$$

$$\text{Ribbon left} = \frac{5}{6} - \frac{2}{3} = \frac{1}{6} \text{ m}$$

Q3)

$$\text{Mrs Jacobs (4 yrs time)} \quad \underline{\quad} - 38 + 4 = 42$$

$$\text{Son then} \quad \underline{\quad} - 42 + 6 = 7$$

$$\text{Son now} \quad \underline{\quad} - 7 - 4 = \underline{3}$$

Q4)

$$\begin{array}{ll} \text{A : B} & \text{C : B} \\ 2 : 5 & 3 : 5 \end{array}$$

$$\text{Area D} = 7u - 3u = 4u$$

$$\text{A : D}$$

$$2 : 4$$

$$\underline{1 : 2}$$

Q5)

$$\text{SV} = \frac{36 - (8 \times 2)}{2} = 10 \text{ cm}$$

$$\text{Area of Triangle SWX} = \frac{1}{2} \times 20 \times 8 = \underline{80 \text{ cm}^2}$$

Q6)

$$12u = \$447.60 - (\$15.20 \times 3) = \$402$$

$$1 \text{ chair} = \$402 \div 12 = \underline{\$33.50}$$

OR

$$12u = \$447.60 + (\$15.20 \times 9) = \$584.40$$

$$1u = \$584.40 \div 12 = \$48.70$$

$$\text{Chair} = \$48.70 - \$15.20 = \underline{\$33.50}$$

OR

$$3T + 9C = \$447.60$$

$$1T + 3C = \$447.60 \div 3 = \$149.20$$

$$4C = \$149.20 - \$15.20 = \$134$$

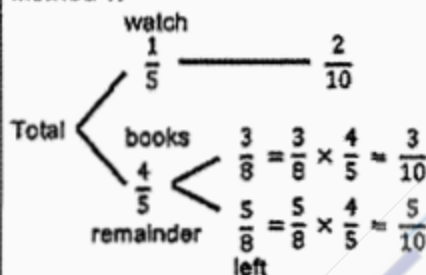
$$1C = \$134 \div 4 = \underline{\$33.50}$$

$$1u = \$584.40 \div 12 = \$48.70$$

$$\text{Chair} = \$48.70 - \$15.20 = \underline{\$33.50}$$

Q7)

Method 1:



$$5u = \$105$$

$$1u = \$105 \div 5 = \$21$$

$$\text{At first, } 10u = 21 \times 10 = \underline{\$210.00}$$

OR

W									
	B	B	B						

Method 2:

$$\frac{5}{8} \text{ of the remainder} = \$105$$

$$\frac{1}{8} \text{ of the remainder} = \$105 \div 5 = \$21$$

$$\text{Remainder} = \$21 \times 8 = \$168$$

$$\frac{4}{5} \text{ of the total} = \$168$$

$$\frac{1}{5} \text{ of the total} = \$168 \div 4 = 42$$

$$\text{Total} = \$42 \times 5 = \underline{\$210}$$

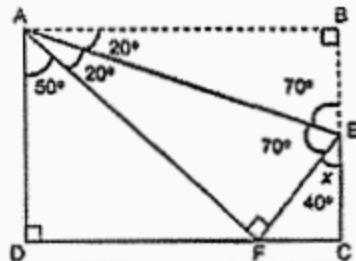
Q8)

$$\angle EAF = \angle BAE = 20^\circ$$

$$\angle BEA = 180^\circ - 90^\circ - 20^\circ = 70^\circ$$

$$\angle BEA = \angle AEF = 70^\circ$$

$$\angle x = 180^\circ - 70^\circ - 70^\circ = 40^\circ$$



Q9)

Difference in length, $2u = 73 - 21 = 52$

$$1u = 52 \div 2 = 26 \text{ cm}$$

$$\text{Rod Y, } 5u = 26 \times 5 = 130$$

$$\text{Rod X, } 3u = 26 \times 3 = 78$$

$$\text{Rod Z} = 130 \text{ cm} + 21 \text{ cm} = \underline{151 \text{ cm}}$$

OR

$$\text{Rod Z} = 78 \text{ cm} + 73 \text{ cm} = \underline{151 \text{ cm}}$$

OR

$$\text{Rod Z} = 57 \text{ cm} + 73 \text{ cm} + 21 \text{ cm} = \underline{151 \text{ cm}}$$

Q10)

$$(a) \angle BCD = \frac{180^\circ - 126^\circ}{2} = \underline{27^\circ}$$

$$(b) \angle DBC = 126^\circ - 70^\circ = 56^\circ$$

$$\angle CED = 180^\circ - 56^\circ - 30^\circ - 27^\circ = \underline{67^\circ}$$

OR

$$\angle DBC = 126^\circ - 70^\circ = 56^\circ$$

$$\angle BDC = 180^\circ - 56^\circ - 27^\circ = 97^\circ$$

$$\angle CDE = 180^\circ - 97^\circ = 83^\circ$$

$$\angle CED = 180^\circ - 83^\circ - 30^\circ = \underline{67^\circ}$$

Q11)

A	1u	25	1u	25	1u	25	1u	25	
B	1u		1u		1u		1u		1u

$$A = 4u + 100$$

$$B = 5u$$

If I add 70 to B, they will have the same number of toy cars

A	4u	100
B	4u	1u 70

$$1u = 100 - 70 = 30$$

$$\text{Total number of cars} = 9u + 100 = 30 \times 9 + 100 = \underline{370}$$

Q12)

$$(a) \text{ Price after discount} = \frac{20}{100} \times \$118.75 = \underline{\$23.75}$$

$$(b) \text{ Price after discount} = \$118.75 - \$23.75 = \$95.00$$

$$\text{GST} = \frac{7}{100} \times \$95 = \$6.65$$

$$\text{Amount payable} = \$95 + \$6.65 = \underline{\$101.65}$$

OR

$$\text{Amount payable} = \frac{107}{100} \times \$95 = \underline{\$101.65}$$

$$\text{Q13a) Total (Tues to Friday)} = 54 + 36 + 32 + 26 = \underline{148}$$

$$\text{Q13b) Total for 6 days} = 34 \times 6 = 204$$

$$\text{No of patients on Sat} = 204 - 148 = \underline{56}$$

Q14)

$$\text{Amount of water in A} = \frac{1}{4} \times 27 \times 9 \times 12 = 729 \text{ cm}^3$$

OR

$$\text{Amount of water in A} = 3 \times 27 \times 9 = 729 \text{ cm}^3$$

$$\text{Volume of Cubical container B} = 729 \text{ cm}^3$$

$$\text{Dimension of cubical container B} = \sqrt[3]{729} = 9 \text{ cm}$$

$$\text{Base Area} = 9 \times 9 = \underline{81 \text{ cm}^2}$$

Q16)

(a)

1 set (difference) = 1 large cup - 1 small cup = \$6 - \$5 = \$1

No of sets = \$24 ÷ \$1 = 24

Total number of cups = 24 × 2 = 48

OR

Equal number of cups - 6 small and 6 larger

1 set (difference) = 6 large cups - 6 small cups

= \$36 - \$30

= \$6

No of sets = \$24 ÷ \$6 = 4

Total number of cups = 4 × 12 = 48

OR using the following multiples with correct cost

Large Cups	Cost	Small Cups	Cost	Diff
12	\$72	12	\$60	\$12
18	\$108	18	\$90	\$18
24	\$144	24	\$120	\$24

24 × 2 = 48

OR Using Guess and Check

(b)

No of small cups = \$50 ÷ \$15 = 3 R \$5

Total number of cups = 3 × 3 + 6 = 15

Fraction of cups that are small = $\frac{9}{15}$

Q17)

(a) 1 sheet of sticker = 1u

1 book = 9u

$\frac{1}{4}$ of money = 5 × 9u + 15 × 1u = 45u + 15u = 60u

$\frac{3}{4}$ of money spent on books = 60u × 3 = 180u

Since 1 book is 9u,

No of books (from remaining money) = 180u ÷ 9u = 20 books

OR

$\frac{1}{4}$ of money = 5 × 9u + 15 × 1u = 45u + 15u = 60u

With 60u, one can buy --- 6 books + 6 stickers

Since $\frac{3}{4}$ of money spent on books,

Can buy --- 6 books × 3 = 18 books

6 stickers × 3 = 18 stickers

And 18 stickers = 2 books

No of books (from remaining money) = 18 books + 2 books = 20 books

(b)

Total units spent on books = $180u + 45u = 225u$

Total units spent on stickers = $15u$

Difference = $225u - 15u = 210u$

$210u = \$231$

1 sheet of sticker, $1u = \$231 \div 210 = \underline{\$1.10}$



CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY) EOY PAPER

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 6 hundreds, 9 tens and 3 thousandths is _____.

- (1) 690.3
- (2) 690.003
- (3) 609.3
- (4) 609.003

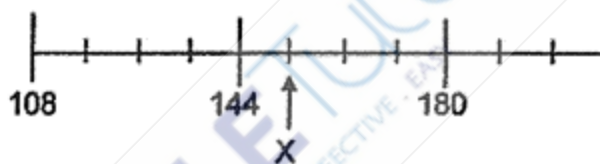
2 Find the difference between 85 812 and 23 167.
Round your answer to the nearest hundred.

- (1) 62 000
- (2) 62 600
- (3) 62 700
- (4) 63 000

3 $\frac{3}{7}$ of a number is 42. What is $\frac{1}{2}$ of this number?

- (1) 18
- (2) 21
- (3) 49
- (4) 98

4 Look at the number line shown below. What is the value of X?



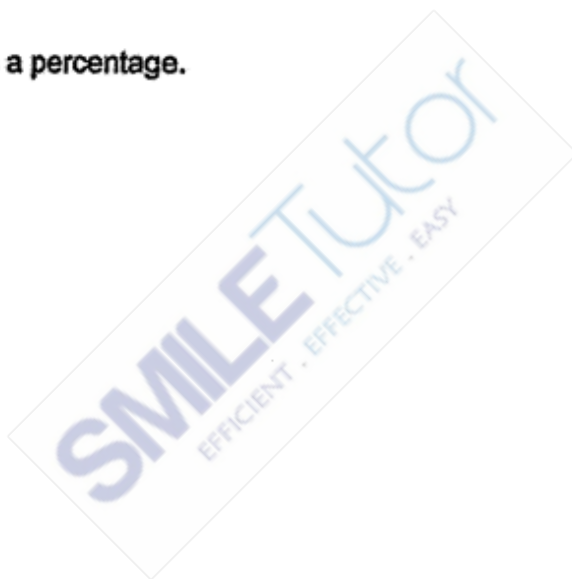
- (1) 150
- (2) 153
- (3) 156
- (4) 160

- 5 In an exhibition hall, there were 140 adults. 28 were women. What is the ratio of the number of men to the number of women?

- (1) 1 : 4
- (2) 1 : 5
- (3) 4 : 1
- (4) 5 : 1

- 6 Express $\frac{72}{120}$ as a percentage.

- (1) 0.06%
- (2) 0.6%
- (3) 6%
- (4) 60%



Use the table below to answer questions 7 and 8.

The table below shows the number of bookmarks made by pupils in an art club.

Number of bookmarks made by each pupil	Number of pupils
0	10
1	20
2	45
3	10
4	25

7 What is the total number of pupils who made more than 2 bookmarks?

- (1) 30
- (2) 35
- (3) 45
- (4) 80

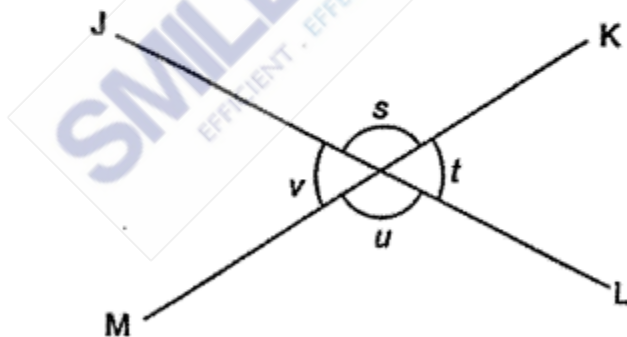
8 How many bookmarks did the pupils make altogether?

- (1) 100
- (2) 110
- (3) 230
- (4) 240

- 9 Xue Hui had a few \$1 coins, 50-cent coins and 20-cent coins in her wallet. She took out four coins to buy a drink. Which of the following could not be the price of the drink?

- (1) \$1.70
- (2) \$1.90
- (3) \$2.60
- (4) \$2.70

- 10 JL and KM are straight lines.
Which of the following statements is true?



- (1) $\angle s = \angle t$
- (2) $\angle s + \angle t = 90^\circ$
- (3) $\angle s + \angle u = 180^\circ$
- (4) $\angle t + \angle u = 180^\circ$

11 Which of the following is the closest to 1?

(1) $\frac{8}{9}$

(2) $\frac{7}{8}$

(3) $1\frac{1}{4}$

(4) $1\frac{1}{3}$

12 Delphine, Emil and Fahmi shared a sum of money in the ratio of 3 : 1 : 8.
Delphine received \$12 more than Emil. How much more money did Fahmi receive than Emil?

(1) \$28

(2) \$32

(3) \$42

(4) \$48

- 13 A printer prints 100 pages in 5 minutes. How pages can it print in 1 hour?
- (1) 500
 - (2) 1200
 - (3) 2000
 - (4) 6000
- 14 Peng Shan bought 3 similar big mugs and 2 similar small mugs. The total mass of the 5 mugs is 1128.8 g. The mass of each big mug is twice the mass of a small mug. Find the total mass of 4 small mugs.
- (1) 141.1 g
 - (2) 225.76 g
 - (3) 564.4 g
 - (4) 903.04 g

- 15 The pupils in a class were divided equally into Team X and Team Y. $\frac{1}{3}$ of the pupils in Team X are boys. $\frac{1}{5}$ of the pupils in Team Y are girls. What fraction of the pupils in the class are girls?

(1) $\frac{8}{15}$

(2) $\frac{13}{15}$

(3) $\frac{13}{30}$

(4) $\frac{17}{30}$



Questions 16 to 20 carry 1 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. (5 marks)

16 What is the value of $(210 - 60 + 3) - 9 \times 6$?

Ans: _____

17 Find the value of $5 - \frac{7}{12}$. Give your answer as a mixed number in its simplest form.

Ans: _____

- 18 A cup holds 400 ml of water when filled to the brim. How many such cups are needed to fill a container of 3200 ml to the brim?

Ans: _____

- 19 Write down a ratio that is equivalent to 2 : 9.

Ans: _____

- 20 The table shows the bulk post charges by a delivery company.

Mass Step Not Over	Bulk Post Charge
1 kg	\$15
3 kg	\$42
Per additional step of 500 g or part thereof	\$8

Ganesh wants to send a package that weighs 1.7 kg. How much does he need to pay for the bulk post charge?

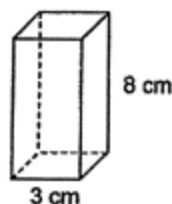
Ans: \$ _____

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 Casper baked 54 banana, cheese and blueberry muffins altogether. $\frac{1}{3}$ of the muffins were banana muffins. $\frac{1}{9}$ of the muffins were cheese muffins and the remaining muffins were blueberry muffins. How many blueberry muffins did Casper bake?

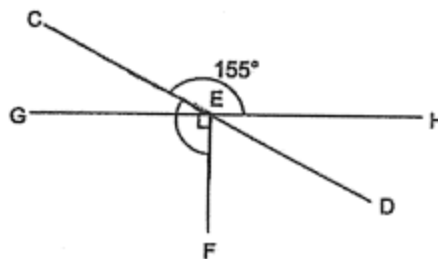
Ans: _____

- 22 The figure shows a cuboid with a square base of side 3 cm and a height of 8 cm. Find the volume of the cuboid.



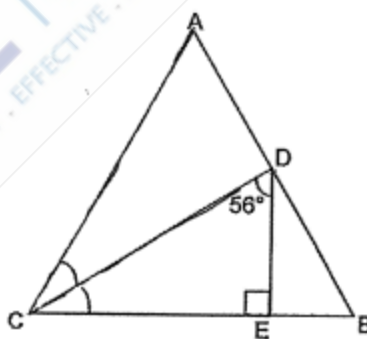
Ans: _____ cm³

- 23 CED and GEH are straight lines. $\angle CEH = 155^\circ$ and $\angle GEF = 90^\circ$.
Find $\angle CEF$.



Ans: _____°

- 24 ABC is an equilateral triangle and $\angle CDE = 56^\circ$. Find $\angle ACD$.



Ans: _____°

- 25 Figure 1 shows a right-angled triangle of height 12 cm and base 5 cm. Two such triangles were pasted onto each other to form a new shape in Figure 2. The shaded area is 18 cm^2 . What is the area of the new shape in Figure 2?

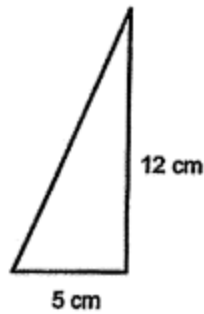


Figure 1



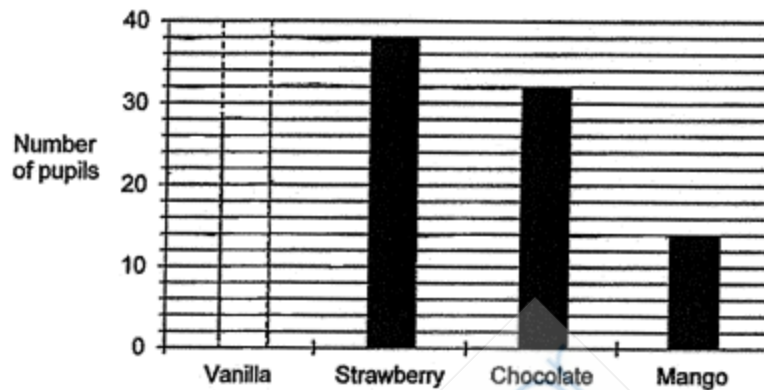
Figure 2

Ans: _____ cm^2

- 26 A restaurant is having a promotion. The regular price for each dinner set is \$30. For every 9 dinner sets purchased, the tenth dinner set will be free. How much does it cost to purchase 52 such dinner sets?

Ans: \$ _____

- 27 A group of Primary Five pupils were asked to choose their favourite ice cream flavours from vanilla, strawberry, chocolate and mango. The bar graph represents the choices made by the pupils. $\frac{1}{4}$ of the pupils chose vanilla. Draw the bar that shows the number of pupils who chose vanilla ice cream.



- 28 The usual price of a cabinet was \$200. During a sale, there was a 16% discount on the cabinet. As a member, Tosh was given an additional discount of \$2.80. How much did Tosh save altogether?

Ans: \$ _____

- 29 Rice is sold in packets of 2 kg, 1 kg or 0.5 kg. Meifeng bought exactly 9.5 kg of rice. What is the least number of packets of rice Meifeng bought?

Ans: _____

- 30 Devi and Annabel had \$98 each. Annabel bought some similar notebooks and had \$17 left. Devi wanted to buy 40 such notebooks but would need another \$22. How many notebooks did Annabel buy?



Ans: _____

End of Paper

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)

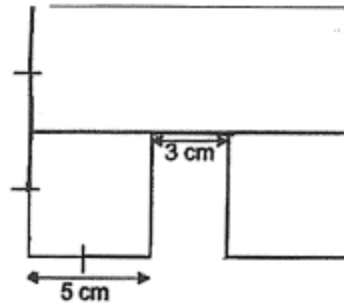
- 1 Leroy and Kenneth have 1080 cards altogether. Leroy has 98 more cards than Kenneth. How many cards does Kenneth have?

Ans : _____

- 2 Aaron bought a bicycle which included a GST of 7%. The price of the bicycle before GST was \$250. How much did he pay for the bicycle?

Ans : \$ _____

- 3 The figure is made up of 2 identical squares and a rectangle. Find the perimeter of the figure.



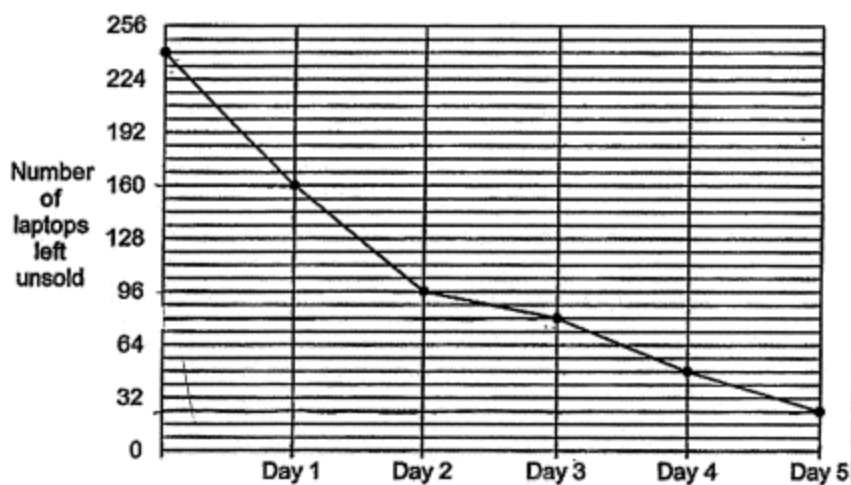
Ans : _____ cm

- 4 In the figure below, SVT is an isosceles triangle. $SV = VT$. Find $\angle TVS$.



Ans : _____ °

- 5 A shop offered 240 laptops during a 5-day sale. The line graph below shows the number of laptops left unsold at the end of each day.



- (a) On which day was the least number of laptops sold?
- (b) Find the difference in the number of laptops sold on Day 1 and Day 5.

Ans : (a) Day _____

(b) _____

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question. (45 marks)

- 6 Melvin and Jackson travelled from Town A to Town B. After Melvin travelled 32.5 km and Jackson travelled 40.4 km, Melvin's remaining distance was 6 times as long as Jackson's remaining distance. What was the distance between Town A and Town B? Give your answer in kilometres and metres.



Ans : _____ [3]

- 7 Benjamin has 3 different coloured sticks. $\frac{5}{8}$ of the sticks are green. $\frac{1}{6}$ of the remaining sticks are blue. There are 140 yellow sticks. How many sticks does he have altogether?



Ans : _____ [3]

- 8 The table below shows the rate for printing postcards at a shop.

First 200 postcards	\$160
Every additional set of 5 postcards	\$3

Lynette printed 700 postcards. How much did she pay?



Ans : _____ [3]

9 The table below shows the number of stamps that Karris has.

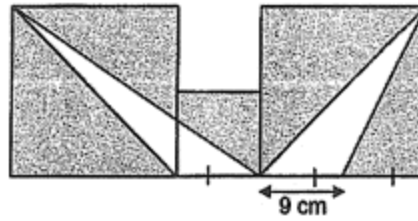
Singapore	Australia	England	Japan
84	18	33	?

- (a) Find the ratio of the number of Singapore stamps to the total number of Australia and England stamps. Give your answer in its simplest form.
- (b) The ratio of the number of Singapore stamps to Japan stamps that Karris has is 4 : 9. How many Japan stamps does she have?

Ans : (a) _____ [2]

(b) _____ [1]

- 10 The figure shows 2 identical big squares and a small square. Find the shaded area.

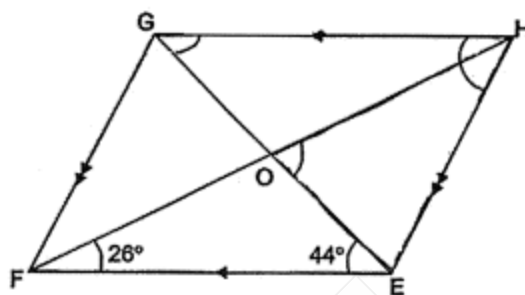


Ans : _____ [3]

- 11 In the figure below, EFGH is a parallelogram. $\angle EFH = 26^\circ$, $\angle FGE = 74^\circ$ and $\angle GEF = 44^\circ$.

(a) Find $\angle HOE$.

(b) Find $\angle GHE$.



Ans : (a) _____ [2]

(b) _____ [1]

- 12 Abdullah baked 276 cream tarts and 3 times as many fruit tarts as cream tarts. He gave away an equal number of cream tarts and fruit tarts. Then he had 4 times as many fruit tarts as cream tarts left. He sold all the rest of the cream tarts and fruit tarts at \$1.80 each. How much money did Abdullah collect after selling the tarts?




Ans : _____ [4]

- 13 Hallmah bought 174 m of cloth to make some tote bags and blankets for a charity event. She used 205 cm of cloth to make a blanket. She made 48 such blankets and 40 such tote bags with the remaining cloth. How much more cloth was used to make each blanket than each tote bag?

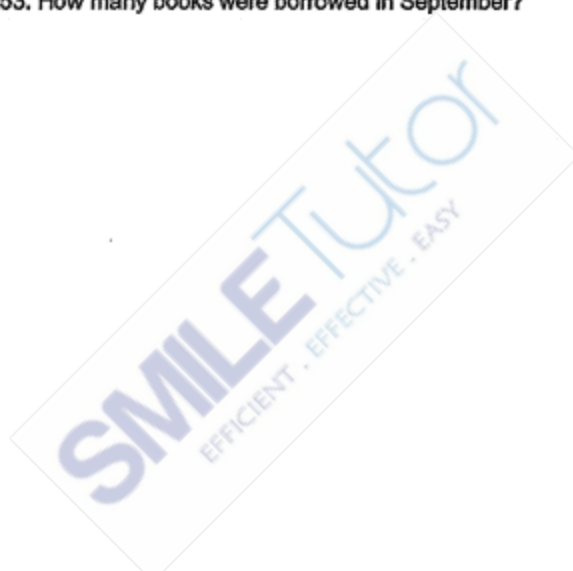


Ans : _____ [4]

- 14 The table below shows four different types of books borrowed in a reading club in October. The number of Chinese books borrowed was smeared by some ink.

Type of books	Number of books borrowed
English	95
Chinese	
Malay	64
Indian	37
Total	320

- (a) What percentage of the books borrowed were Chinese books?
- (b) The average number of books borrowed in September and October was 253. How many books were borrowed in September?

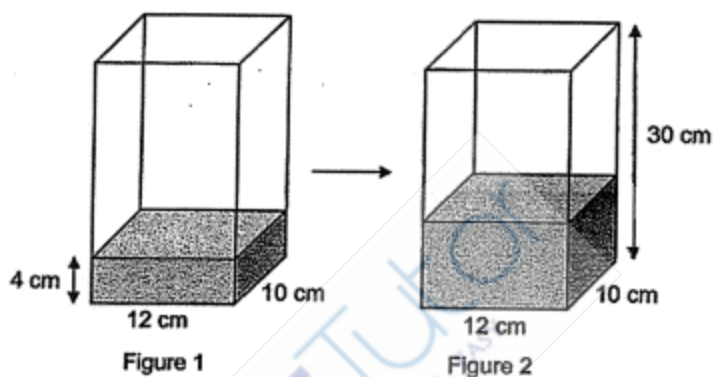


Ans : (a) _____ [2]

(b) _____ [2]

- 15 Figure 1 shows a rectangular tank measuring 12 cm by 10 cm by 30 cm. It is filled with water to a height of 4 cm as shown in Figure 1. Some water is then poured into the tank until it is $\frac{2}{5}$ filled with water as shown in Figure 2.

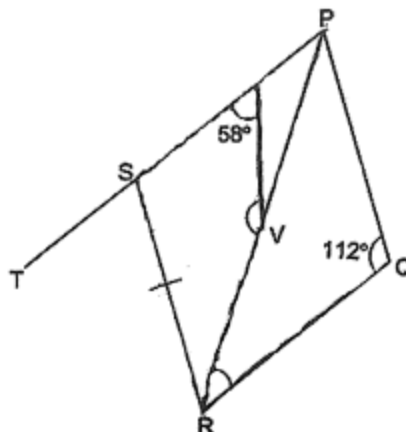
- (a) What was the volume of water poured into the tank?
- (b) Water then flowed from a tap into the tank at a rate of 1.6 litres per minute. How long did it take for the tank to be filled up completely? Give your answer in minutes.



Ans : (a) _____ [3]

(b) _____ [2]

10 PQRS is a rhombus, PVR and PST are straight lines.



(a) Find $\angle PRQ$.

(b) Find $\angle UVR$.

Ans : (a) _____ [2]

(b) _____ [2]

(c) Circle the words that describe SUVR in the statement.

Line UV (is / is not) parallel to Line SR.

SUVR (is / is not) a trapezium.

[1]

17 Janice received a book as a present. On the first day, she read $\frac{1}{5}$ of the book.

On the second day, she read 72 pages of the book. As a result, she read $\frac{2}{7}$ of the book.

(a) How many pages are there in the book?

(b) Janice took another 5 days to complete reading the book. She read the same number of pages each day. How many pages did Janice read each day?



Ans : (a) _____ [3]

(b) _____ [2]

End of Paper

ANSWER SHEET

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	3	2	3	4	2	4	3	4

Q 11	Q12	Q13	Q14	Q15
1	3	2	3	3

PAPER 1 BOOKLET B

Q16)	$(210 - 60 \div 3) - 9 \times 6$ $= (210 - 20) - 9 \times 6$ $= 190 - 9 \times 6$ $= 190 - 54 = 136$
Q17)	$5 - \frac{7}{12} = 4\frac{5}{12}$
Q18)	$3200 \div 400 = 8$
Q19)	$4 : 18$
Q20)	\$42
Q21)	$54 \div 9 = 6$ 1 unit = 6 $9 - 3 - 1 = 5$ $5 \times 6 = 30$
Q22)	$3 \times 3 \times 8 = 72\text{cm}^3$
Q23)	$180^\circ - 155^\circ = 25^\circ$ $\angle CEF = 25^\circ + 90^\circ$ $= 115^\circ$

Q24)	$\angle DCE = 180^\circ - 90^\circ - 56^\circ$ $= 34^\circ$ $\angle ACB = 180^\circ \div 3$ $= 60^\circ$ $\angle ACD = 60^\circ - 34^\circ$ $= 26^\circ$
Q25)	$\frac{1}{2} \times 12 \times 5 = 30$ $30 \times 2 = 60$ $60 - 18 = 42\text{cm}^2$
Q26)	$30 \times 9 = 270$ (9d+1free) $52 \div (9 + 1) = 5\text{R}2$ $5 \times 270 = 1350$ $1350 + (30 \times 2) = \$1410$
Q27)	$40 - 30 = 10$ $10 \div 5 = 2$ $38 + 32 + 14 = 84$ $84 \div (4 - 1) = 28$
Q28)	$200 \div 100 = 2$ $16 \times 2 = 32$ $200 - 32 = 168$ $168 - 2.80 = 165.20$ $200 - 165.20 = \$34.80$
Q29)	$9.5 \div 2 = 4\text{R}1.5$ $1.5 - 1 = 0.5$ $4 + 1 + 1 = 6$
Q30)	$98 + 22 = 120$ $120 \div 40 = 3$ 1 notebook \rightarrow \$3 $98 - 17 = 81$ (Annabel spent) $81 \div 3 = 27$

PAPER 2

Q1)	$1080 - 98 = 982$ $982 \div 2 = 491$
Q2)	$\frac{7}{100} \times 250 = 17.50$ (GST) $250 + 17.50 = \$267.50$
Q3)	$5 + 5 + 3 = 13$ $5 \times 2 = 10$ $10 + 10 = 20$ $20 + (13 \times 2) = 46$ $46 + 5 + 5 = 56\text{cm}$
Q4)	$180^\circ - 31^\circ - 31^\circ = 118^\circ$ $360^\circ - 118^\circ = 242^\circ$
Q5)	a) $240 - 160 = 80$ (day 1) $160 - 96 = 64$ (day 2) $64 + 8 + 8 = 80$ $96 - 80 = 16$ (day 3) $32 + 8 + 8 = 48$ $80 - 48 = 32$ (day 4) $32 - 8 = 24$ $48 - 24 = 24$ (day 5) Ans : Day 3 b) $80 - 24 = 56$
Q6)	$40.4 - 32.5 = 7.9$ $7.9 \div (6 - 1) = 1.58$ $1.58 + 40.4 = 41.98$ $41.98\text{km} = 41\text{km}980\text{m}$
Q7)	$6 - 1 = 5$ $140 \div 5 = 28$ 1 unit = 28 $8 \times 2 = 16$ $28 \times 16 = 448$

Q8)	$700 - 200 = 500$ $500 \div 5 = 100$ $100 \times 3 = 300$ $300 + 160 = \$460$
Q9)	a) $33 + 18 = 51$ S : A&E 84 : 51 28 : 17 b) S : J 4 : 9 $84 \div 4 = 21$ $21 \times 9 = 189$
Q10)	$18 \times 9 \times \frac{1}{2} = 81$ $81 \times 2 = 162$ (Area of non - shaded triangles) $9 \times 2 = 18$ $(18 \times 18) \times 2 = 648$ $648 + (9 \times 9) = 729$ $729 - 162 = 567 \text{ cm}^2$
Q11)	a) $\angle FOE = 180^\circ - 26^\circ - 44^\circ$ $= 110^\circ$ $\angle HOE = 180^\circ - 110^\circ$ $= 70^\circ$ b) $180^\circ - (74^\circ + 44^\circ) = 62^\circ$
Q12)	$276 \times 3 = 828$ $828 - 276 = 552$ $4 - 1 = 3$ $552 \div 3 = 184$ $4 + 1 = 5$ $184 \times 5 = 920$ $920 \times 1.80 = \$1656$
Q13)	$174\text{m} = 17400\text{cm}$ $17400 - 205 = 17195$ $48 \times 205 = 9840$

	$17195 - 9840 = 7355$ $7355 \div 40 = 183.875$ $205 - 183.875 = 21.125\text{cm}$
Q14)	a) $320 - 37 - 64 - 95 = 124$ $\frac{124}{320} \times 100 = 38.75\%$ b) $253 \times 2 = 506$ $506 - 320 = 186$
Q15)	a) $12 \times 10 \times 4 = 480$ $30 \div 5 = 6$ $6 \times 2 = 12$ $12 \times 10 \times 12 = 1440$ $1440 - 480 = 960\text{ml}$ b) $12 \times 10 \times 30 = 3600$ $3600\text{ml} = 3.6\ell$ $1440\text{ml} = 1.44\ell$ $3.6 - 1.44 = 2.16$ $2.16 \div 1.6 = 1.35\text{min}$
Q16)	a) $\angle PRQ = (180^\circ - 112^\circ) \div 2$ $= 34^\circ$ b) $112^\circ + 58^\circ + 34^\circ = 204^\circ$ $360^\circ - 204^\circ = 156^\circ$
Q17)	a) $\frac{1}{5} = \frac{7}{35}$ $\frac{2}{7} = \frac{10}{35}$ $\frac{10}{35} - \frac{7}{35} = \frac{3}{35}$ $72 \div 3 = 24$ $24 \times 35 = 840$ b) $(840 \div 7) \times 2$ $840 - 240 = 600$ $600 \div 5 = 120$

TAO NAN SCHOOL EOY PAPER

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

[20 marks]

1. $7\,000\,000 + 80\,000 + 300 + 2 =$ _____

(1) 7 832 000

(2) 7 800 302

(3) 7 080 320

(4) 7 080 302

2. How many sevenths are there in $5\frac{6}{7}$?

(1) 72

(2) 41

(3) 35

(4) 11

3. Round 18.455 to 1 decimal place.

(1) 18.0

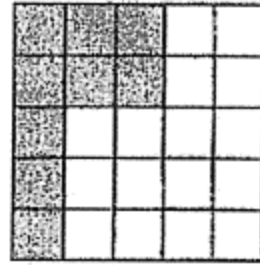
(2) 18.4

(3) 18.5

(4) 18.6

4. The figure is divided into 25 equal parts. What percentage of the figure is shaded?

- (1) 9%
- (2) 16%
- (3) 36%
- (4) 64%

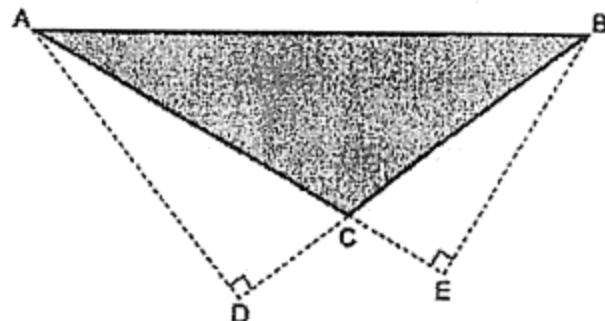


5. How many minutes are there in 9 h 15 min?

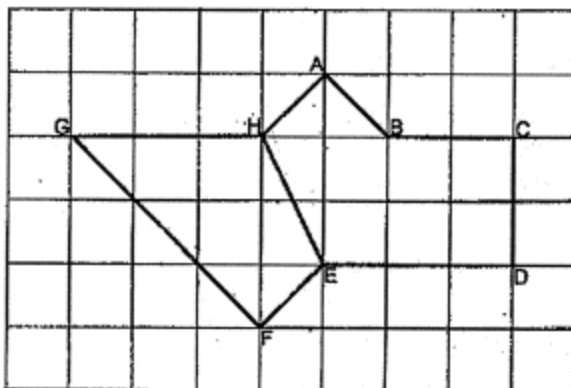
- (1) 465
- (2) 540
- (3) 555
- (4) 915

6. Which pair of lines shows the base and height for triangle ABC?

- | | <u>Base</u> | <u>Height</u> |
|-----|-------------|---------------|
| (1) | BC | AC |
| (2) | BC | AD |
| (3) | BD | AD |
| (4) | CE | BE |



7. Which line in the square grid is parallel to AB?



- (1) AH
- (2) BC
- (3) EH
- (4) FG

8. Mrs Bala bought some fruits and vegetables from the market.

The mass of the fruits was $2\frac{7}{8}$ kg. The fruits were $1\frac{1}{4}$ kg heavier than the vegetables. What was the mass of the vegetables?

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

9. Imran earns \$4000 a month. He saves 30% of his salary and spends the rest. How much does he spend in a month?

- (1) \$120
- (2) \$280
- (3) \$1200
- (4) \$2800

10. The table shows the number of plates of chicken rice and egg noodles Auntie Cheng sold at a school canteen in a week.
On which day did she sell 25 more plates of chicken rice than egg noodles?

Day	Number of plates of chicken rice	Number of plates of egg noodles
Monday	69	44
Tuesday	70	40
Wednesday	47	72
Thursday	51	66
Friday	65	50

- (1) Friday
- (2) Monday
- (3) Thursday
- (4) Wednesday

11. $(5 \times 7 - 3) - (12 + 8 \div 4) = \underline{\hspace{2cm}}$

- (1) 15
- (2) 18
- (3) 22
- (4) 27

12. $75.038 = 75 + \frac{3}{A} + \frac{1}{B}$

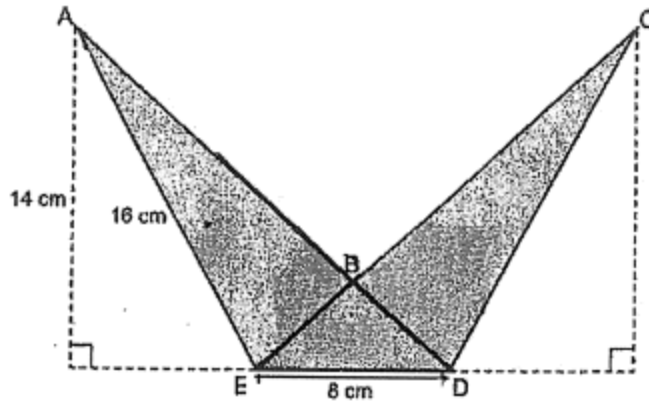
What are the values of A and B?

- | | <u>A</u> | <u>B</u> |
|-----|----------|----------|
| (1) | 10 | 125 |
| (2) | 10 | 1000 |
| (3) | 100 | 125 |
| (4) | 100 | 1000 |

13. There are 16 girls in a class. There are 4 more boys than girls. What is the ratio of the number of boys to the total number of students in the class?

- (1) 4 : 5
- (2) 5 : 4
- (3) 5 : 9
- (4) 9 : 5

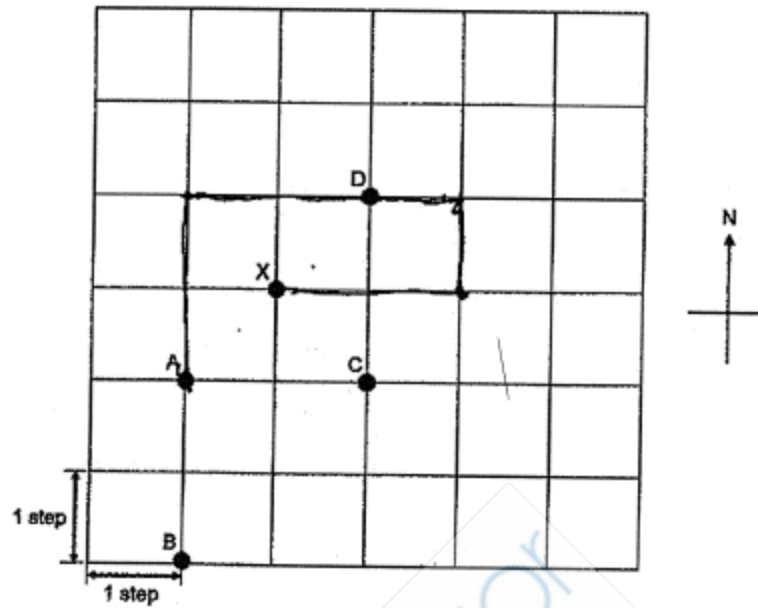
14. In the figure below, ADE and CDE are identical triangles that overlap partially. The length of AE is 16 cm and the area of triangle BDE is 15 cm^2 . Find the area of the whole figure.



- (1) 82 cm^2
- (2) 97 cm^2
- (3) 112 cm^2
- (4) 113 cm^2



15. Study the diagram below and answer the following question.



Peggy was at a certain position. She walked 2 steps due north, 3 steps due east, 1 step due south and then 2 steps due west. She ended at Position X. What was her starting position?

- (1) A
- (2) B
- (3) C
- (4) D

End of Booklet A

Go on to Booklet B

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
 For questions which require units, give your answers in the units stated. [5 marks]

16. Find the value of $42 \div 8$

Give your answer as a *mixed number* in the *simplest form*.

Ans: _____

17. In the number line, what is the decimal represented by A?



Ans: _____

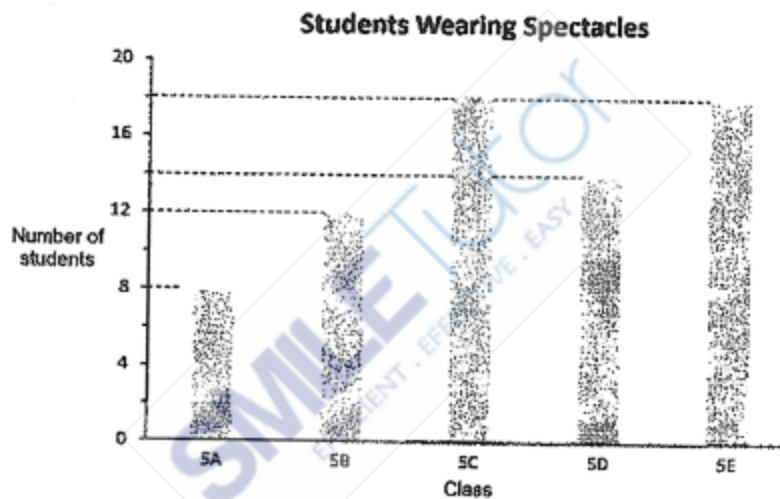
18. Express 30.07 km in metres.

Ans: _____ m

19. How many degrees are there in a $\frac{1}{4}$ -turn?

Ans: _____

20. The bar graph shows the number of Primary 5 students in each class wearing spectacles.



How many students in class 5D wear spectacles?

Ans: _____

Questions 21 to 30 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. (20 marks)

21. Uncle George has 30 red pens, 45 green pens and 120 blue pens at his stationery shop. Find the ratio of the number of green pens to the number of red pens to the number of blue pens. Give your *answer* in its *simplest form*.

Ans: _____

22. In a survey of 60 students, it was found that 39 of them do not own mobile phones. What percentage of the students own mobile phones?

Ans: _____ %

23. Jing Lin watched a movie last night at the time shown on the clock below. The duration of the movie was 2 hours 15 minutes. Write down the time the movie ended using the **24-hour clock**.

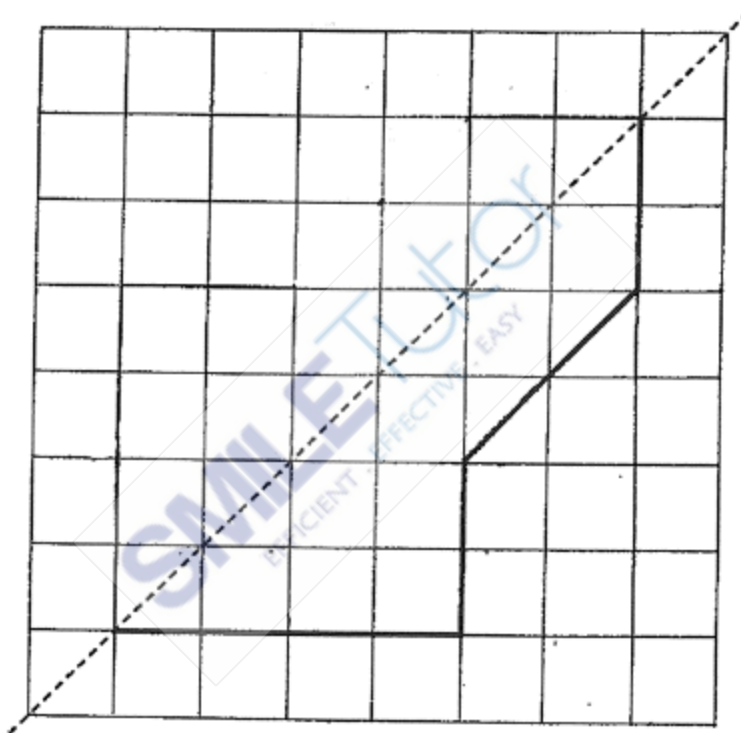


Ans: _____

24. A rectangular tank measuring 30 cm by 40 cm by 70 cm was completely filled with milk. Find the volume of milk. Give your answer in *litres*.

Ans: _____ *ℓ*

25. Complete the symmetric figure with the dotted line as the line of symmetry.



26. A photocopy machine prints 162 pages in 6 minutes.
How many pages does the machine print in 10 minutes?

Ans: _____

27. The total cost of 2 chairs and 1 table is \$210. The total cost of 1 chair and 2 tables is \$285. What is the cost of 1 chair?

Ans: \$ _____



28. Cindy was given $\frac{9}{10}$ h to work on a task. She took $\frac{2}{3}$ of the given time to complete the task. How much time had she left?

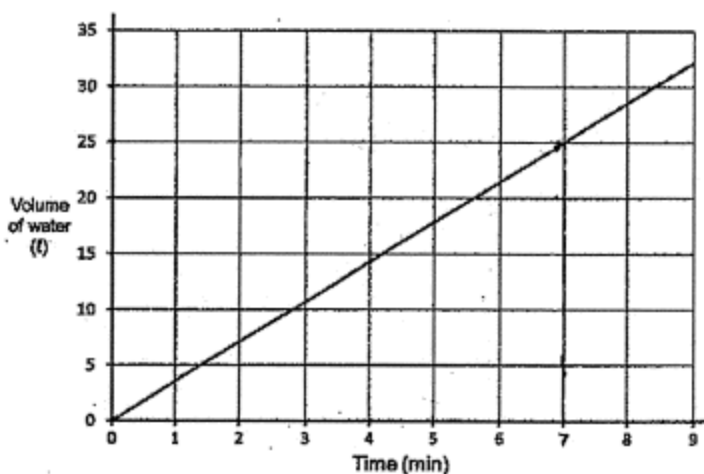
Ans: _____ h

29. The cost of a pen is \$1.80. Siti buys 40 such pens and gives the cashier \$100. How much change does Siti get?



Ans: \$ _____

30. The graph shows the volume of water that flows from a tap.



At this rate, how many litres of water will flow from the tap in 35 minutes?

Ans: _____ l

End of Booklet B

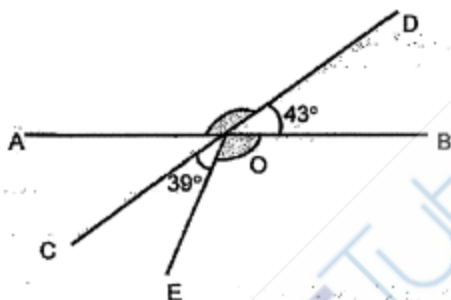
End of Paper 1

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)

1. Ben is thrice as heavy as his sister. Ben is 57.6 kg. Find their difference in mass.

Ans: _____ kg

2. AB and CD are straight lines. Find the sum of $\angle AOD$ and $\angle BOE$.



Ans: _____ °

3. For every 5 pens that Mrs Lee buys, she gets 1 free. If she needs 80 pens, what is the least number of pens she has to buy?

Ans: _____

4. Ryan took 2min 3s to finish running a race. Iris was slower than Ryan by 33s. How much time did Iris take to finish running the race?

Ans: _____ min _____ s

5. Mr Singh bought an equal number of apples and oranges. After he gave away 29 oranges and bought another 10 apples, he had $\frac{1}{4}$ as many oranges as apples. How many oranges did he have at first?

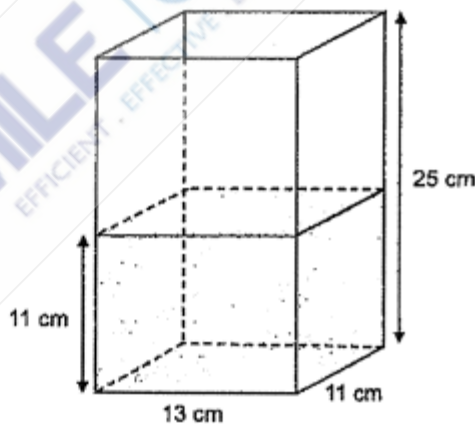
Ans: _____

For questions 6 to 17, show your working clearly in the space provided for each question 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. [45 marks]

6. Minah had 30 m of string. She gave 2.7 m of the string to each of her 4 friends and used the rest to wrap some presents for a birthday party. 75 cm of string was needed for each present. Find the maximum number of presents she could wrap.

Ans: _____ [3]

7. A tank was filled with water up to a height of 11 cm at first. Some water was added and the new water level was 80% of the height of the tank. How much water was added to it? Give your answer in litres.



Ans: _____ [3]

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8. There are 2200 students in a school. 45% of them are girls. 10% of the boys do not have any siblings. How many boys do not have any siblings?

Ans : _____ [3]

9. Billy took up a part-time job and was paid by the rates as shown in the table.

Days	Rate
Monday to Friday	\$8 per hour
Saturday and Sunday	\$9.50 per hour

Billy worked 7 hours each day on some weekdays and 5 hours on a Saturday. He was paid \$271.50 altogether. How many weekdays did he work?

Ans: _____ [3]

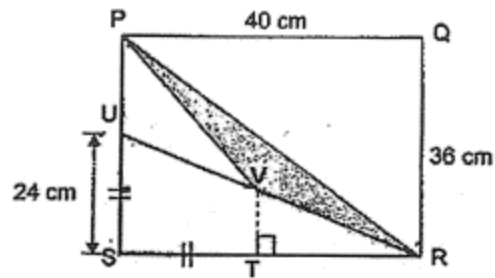
10. Mrs Lim prepared 30 chicken wings and 45 nuggets for her students.
- a) If every student took the same amount of each type of food without any leftover, what was the maximum number of students in her class?

Ans: a) _____ [2]

- b) With the maximum number of students in her class, how many nuggets could each student take?

Ans: b) _____ [1]

11. PQRS is a rectangle of length 40 cm and breadth 36 cm.
 PR and UVR are straight lines and $ST = SU = 24$ cm.



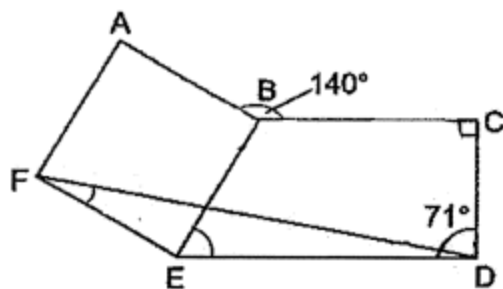
- a) Find the area of Triangle PVR.

Ans: a) _____ [1]

- b) Find the shaded area.

Ans: b) _____ [3]

12. In the figure, ABEF is a square, BCDE is a trapezium and FD is a straight line.
 $\angle ABC = 140^\circ$ and $\angle CDF = 71^\circ$



- a) Find $\angle BED$.

Ans: a) $\angle BED =$ _____ [2]

- b) Find $\angle EFD$.

Ans: b) $\angle EFD =$ _____ [2]

13. The table below shows the movie schedule at a cinema.

SCREENING NOW				
Movie Show	Start Time			Duration
Marvel	2.45p.m.	3.10p.m.	3.45p.m.	1h 25 min
Diary of Minions	3.00p.m.	6.00p.m.	8.00p.m.	2h 30 min
Queen	12.10p.m.	3.15p.m.	7.00p.m.	1h 32 min
Kung Fu Kid	3.05p.m.	6.00p.m.	9.05p.m.	2h

Henry arranged to meet his friend at 2.40 p.m. to watch a movie together. However, his friend was 15 minutes late. Henry arrived at the ticketing counter on time. His father would pick him up 2 hours later, at the mall where the cinema was.

- a) (i) Which movie could Henry and his friend watch from start to end?
 (ii) What was the start and end time of the movie?

Ans: a) (i) _____ [1]

(ii) Start time: _____ [1]

End time: _____ [1]

- b) His father would have to wait for at least another 25 minutes if he had chosen this movie. Which movie was it?

Ans: b) _____ [1]

14. At a friendly match, 150 spectators were adults and $\frac{1}{3}$ of the children were boys.

(a) Given that $\frac{1}{4}$ of the spectators were girls, how many boys were there?

Ans: a) _____ [3]

(b) How many spectators were at the match altogether?




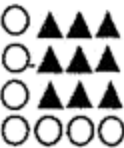
Ans: b) _____ [1]

15. There were 28 students in a class.
The average class score for a quiz was 78 marks.
One of the student's score was wrongly recorded as 43 marks.
The correct average score should be 79.5 marks.
What was the actual score of the student?



Ans: _____ [4]

16. Yasmin uses circles and triangles to form figures that follow a pattern as shown.

Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5
				

(a) Draw Pattern 5 to complete the table. [1]

(b) Which pattern has 100 triangles?

Ans: b) Pattern _____ [1]

(c) Find the total number of circles and triangles in Pattern 20.

Ans: c) _____ [1]

(d) Each of the statements is either *true*, *false* or *not possible to tell* from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
(i) The ratio of the number of circles in Pattern 25 to the number of circles in Pattern 32 is 9 : 7.			
(ii) The ratio of the number of circles to the number of triangles in Pattern 100 is 199 : 9801.			

[2]

17. During an overseas vacation, Rita and Sarah had the same amount of allowance. Each day, Rita spent \$4 and Sarah spent \$6. At the end of the vacation, Sarah had \$12 left, while Rita had 4 times as much money as Sarah.

(a) How many days did the vacation last?

Ans: a) _____ [3]

(b) How much was each girl's allowance at first?

Ans: b) _____ [2]

End of Paper 2

ANSWER SHEET

Paper 1 Booklet A Q1)	4
Paper 1 Booklet A Q2)	2
Paper 1 Booklet A Q3)	3
Paper 1 Booklet A Q4)	3
Paper 1 Booklet A Q5)	3
Paper 1 Booklet A Q6)	2
Paper 1 Booklet A Q7)	4
Paper 1 Booklet A Q8)	1
Paper 1 Booklet A Q9)	4
Paper 1 Booklet A Q10)	2
Paper 1 Booklet A Q11)	2
Paper 1 Booklet A Q12)	3
Paper 1 Booklet A Q13)	3
Paper 1 Booklet A Q14)	2
Paper 1 Booklet A Q15)	1

PAPER 1 BOOKLET B

Q16) $42 \times 8 = 5\frac{1}{4}$

Q17) 4.608

Q18) 30070m

Q19) $360^\circ \times \frac{1}{4} = 90^\circ$

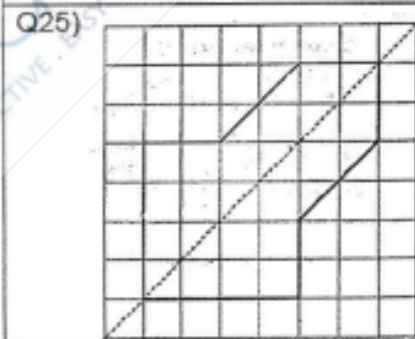
Q20) 14

Q21) G : R : B
3 : 2 : 8

Q22) $60 - 39 = 21$
 $\frac{21}{60} = \frac{7}{20} = \frac{35}{100} = 35\%$

Q23) 23 30

Q24) $30 \times 40 \times 70 = 84\,000$
 $84\,000\text{ml} = 84\text{ L}$
Answer: 84L




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Q26)	$6 \text{ min} \rightarrow 162 \text{ pages}$ $2 \text{ min} \rightarrow 54 \text{ pages}$ $10 \text{ min} \rightarrow 54 \times 5 = 270 \text{ pages}$
Q27)	$2C + 1T = 210$ $1C + 2T = 285$ $1T = 210 - 2C$ $1C + 2(210 - 2C) = 285$ $-3C + 410 = 285$ $410 - 285 = 3C$ $1C = \$45$
Q28)	$60 \text{ min} \times \frac{9}{10} = 54 \text{ min}$ $1 - \frac{2}{3} = \frac{1}{3}$ $54 \text{ min} \times \frac{1}{3} = 18 \text{ min}$ $\text{Ans: } \frac{18}{60} = \frac{3}{10}$
Q29)	$1.8 \times 40 = 72$ $100 - 72 = 28$ Ans: \$28
Q30)	$7 \text{ min} \rightarrow 25L$ $35 \text{ min} \rightarrow 25L \times 5 = 125L$

PAPER 2

Q1)	$3u \rightarrow 57.6\text{kg}$ $1u \rightarrow 19.2\text{kg}$ $2u \rightarrow 38.4\text{kg}$ Ans: 38.4kg
Q2)	$360^\circ - 43^\circ - 43^\circ - 39^\circ = 235^\circ$
Q3)	$5 + 1 = 6$ $80 \times 6 = 13R2$ $5 \times 13 + 2 = 67$
Q4)	2 min 36 s
Q5)	$3u \rightarrow 10 + 29 = 39$ $1u \rightarrow 39 \div 3 = 13$ $13 + 29 = 42$ Ans: 42
Q6)	$2.7 \times 4 = 10.8$

	$30 - 10.8 = 19.2$ $19.2\text{m} = 1920\text{ cm}$ $1920 \times 75 = 25\text{R4}$ Ans: 25
Q7)	$25 \times 4/5 = 20$ $13 \times 11 \times 11 = 1573$ $13 \times 11 \times 20 = 2860$ $2860 - 1573 = 1287$ $1287\text{ml} = 1.287\text{L}$ Ans: 1.287L
Q8)	$\% \text{ number of boys} = 100\% - 45\% = 55\%$ $\text{No. of boys} = 2200 \times 55\% = 1210$ $\text{No. of boys(no siblings)} = 1210 \times 10\% = \mathbf{121}$
Q9)	$\text{Saturday} \rightarrow \$9.50 \times 5 = \$47.50$ $\$271.50 - \$47.50 = \$224$ $\text{One weekday} \rightarrow \$8 \times 7 = \$56$ $\text{No. of weekdays} \rightarrow \$224 \div \$56 = 4$ Ans: 4
Q10)	a) $\text{Common factors of 30 and 45: } 1, 3, 4 \text{ and } 15$ $\text{Highest common factor: } 15$ Ans: 15 b) $45 \div 5 = 9$ Ans: 3
Q11)	(a) $\text{Area} = \frac{1}{2} \times 40 \times 36 = 720$ Ans: 720 cm² (b) $36 - 24 = 12$ $\frac{1}{2} \times 12 \times 24 = 144$ $\frac{1}{2} \times 24 \times 40 = 480$ $\text{Shaded area} = 720 - 144 - 480$ $= \mathbf{96\text{ cm}^2}$
Q12)	(a) $360^\circ - 140^\circ - 90^\circ = 130^\circ$ $180^\circ - 130^\circ = \mathbf{50^\circ}$ (b) $90^\circ - 71^\circ = 19^\circ$ $50^\circ - 90^\circ = 140^\circ$ $180^\circ - 140^\circ - 19^\circ = \mathbf{21^\circ}$

Q13)	<p>a) (i) Marvel (ii) 3.10pm (iii) 4.35pm</p> <p>b) Kung Fu Kid</p>
Q14)	<p>a) Girls $\rightarrow 2/8$ Boys $\rightarrow 1/8$ Adults $\rightarrow 5/8$ $1/8 u \rightarrow 150 \times 5 = 30$ There were 30 boys</p> <p>b) $30 \times 8 = 240$</p>
Q15)	<p>$28 \times 78 = 2184$ $79.5 \times 28 = 2226$ $2226 - 2184 = 42$ $43 + 42 = 85$ (Ans)</p>
Q16)	<p>(a) </p> <p>(b) Number of triangles in pattern = (Pattern number - 1) \times (Pattern number - 1) $100 = (11 - 1) \times (11 - 1)$ Therefore pattern 11 has 100 triangles</p> <p>(c) $20 - 1 = 19$ $19 \times 19 = 361$ $1 + 2 \times 19 = 69$ $361 + 39 = 400$ Ans: 400</p> <p>(d)(i) False (ii) True</p>
Q17)	<p>a) $\\$6 - \\$4 = \\$2$ Rita $\rightarrow \\$12 \times 4 = \\48 Difference $\rightarrow \\$48 - \\$12 = \\$36$ $\\$36 \div \\$2 = 18$ Ans: 18 days</p> <p>b) $48 + 72 = \\$120$</p>

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