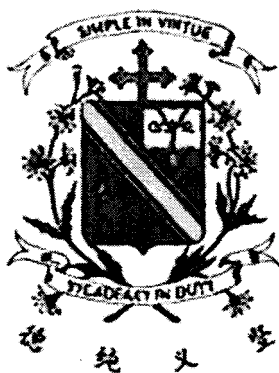


Name: _____ (____)

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2026 Preliminary Examination

Paper 1

Booklet A

18 August 2026

**18 questions
26 marks**

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

INSTRUCTIONS TO CANDIDATES

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

This booklet consists of 12 printed pages.

Questions 1 to 10 carry 1 mark each. Questions 11 to 18 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(26 marks)

1. In the number 75.64, which digit is in the hundredths place?

(1) 7

(2) 6

(3) 5

(4) 4

2. Round 208 349 to the nearest thousand.

(1) 200 000

(2) 208 000

(3) 208 300

(4) 209 000

3. Which one of the following is correct?

(1) $6\frac{1}{2} = 6.2$

(2) $6.09 < 6\frac{7}{10}$

(3) $6.3 > 6.33$

(4) $6.3 > 6.33$

(4) $6.050 > 6.505$

4. Which one of the following is equal to $2 \div 7$?

(1) $\frac{1}{2} \times \frac{1}{7}$

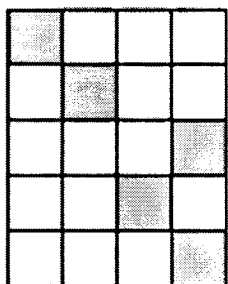
(2) $\frac{1}{7} \div 2$

(3) $\frac{1}{2} \div 7$

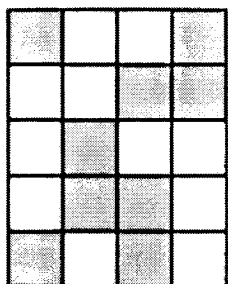
(4) $\frac{1}{7} \times 2$

5. Which one of the following shows that 40% of the figure is shaded?

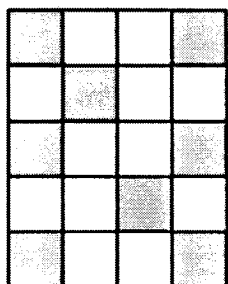
(1)



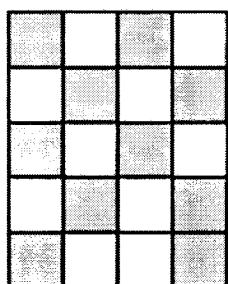
(2)



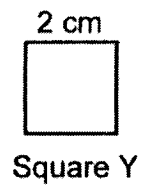
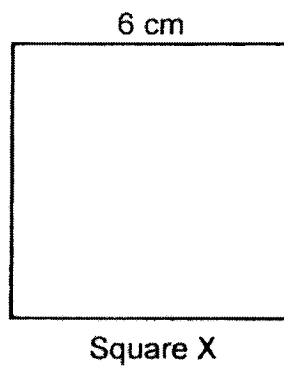
(3)



(4)



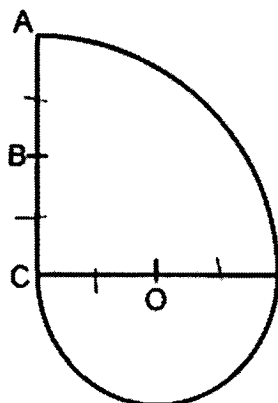
6. The figures below show Square X of side 6 cm and Square Y of side 2 cm. What is the ratio of the area of Square X to the area of Square Y?



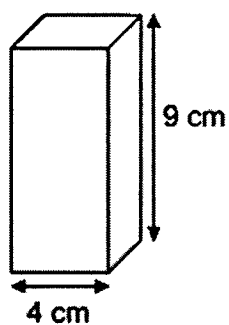
- (1) 1 : 3
 - (2) 1 : 9
 - (3) 3 : 1
 - (4) 9 : 1
7. 25% of a number is 60. What is the number?

- (1) 15
- (2) 45
- (3) 240
- (4) 300

8. The figure is made up of a semicircle and a quarter circle. O is the centre of the circle. $AB = BC = 7$ cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)

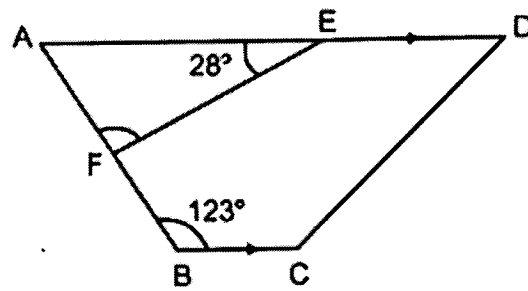


- (1) 47 cm
 (2) 58 cm
 (3) 69 cm
 (4) 80 cm
9. A rectangular container has a square base of side 4 cm and a height of 9 cm. What is the capacity of the container?



- (1) 36 cm^3
 (2) 72 cm^3
 (3) 144 cm^3
 (4) 324 cm^3

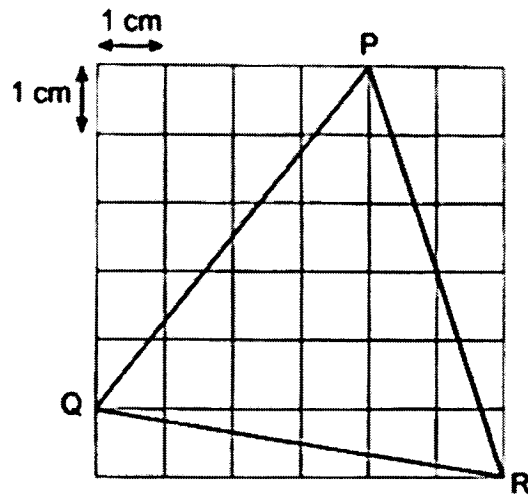
10. ABCD is a trapezium. Find $\angle AFE$.



- (1) 57°
 - (2) 95°
 - (3) 124°
 - (4) 152°
11. Which of the following fractions is closest to $\frac{1}{2}$?

- (1) $\frac{3}{5}$
- (2) $\frac{4}{7}$
- (3) $\frac{5}{8}$
- (4) $\frac{7}{10}$

12. Find the area of triangle PQR.



- (1) 16 cm²
(2) 17 cm²
(3) 18 cm²
(4) 19 cm²
13. Jacy used $\frac{2}{5}$ of a packet of flour to bake cookies. Then she used 210 g of flour to bake tarts. In the end, she had 150 g of flour left. What was the total mass of flour Jacy used to bake cookies and tarts?

- (1) 144 g
(2) 240 g
(3) 450 g
(4) 600 g

14. The pie charts show the number of each type of fruits in two baskets, A and B. The total number of fruits in Basket A is twice the total number of fruits in Basket B.



Which one of the following statements is not correct?

- (1) $\frac{1}{10}$ of the fruits in Basket A are kiwis.
- (2) There are more peaches in Basket A than in Basket B.
- (3) Basket A contains three times as many oranges as Basket B.
- (4) The ratio of the number of oranges to the number of kiwis in Basket B is 9 : 7.

15. The table shows the airmail rates to two countries.

Mass of parcel	Japan	Australia
Up to 5 kg	\$30.00	\$40.00
Every additional 1 kg or part thereof	\$5.00	\$7.00

Mr Fang sent a parcel weighing 4.5 kg to Japan and a parcel weighing 8.1 kg to Australia. How much did he pay altogether?

- (1) \$68.00
- (2) \$77.00
- (3) \$91.70
- (4) \$98.00

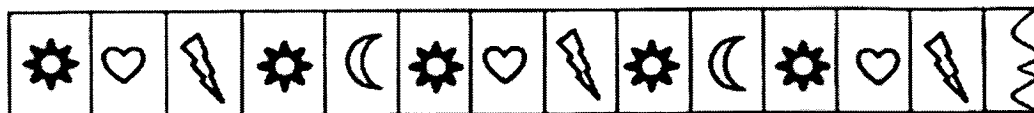
16. 6 identical pails of water can fill $\frac{1}{3}$ of a tank. Ryden needs another 3 such pails and 20 identical jugs of water to fill the tank completely. Each jug can hold 0.9 ℓ of water. Find the capacity of the tank.

- (1) 12 ℓ
- (2) 18 ℓ
- (3) 36 ℓ
- (4) 54 ℓ

17. A roll of sticker has pictures that follow a repeated pattern as shown.

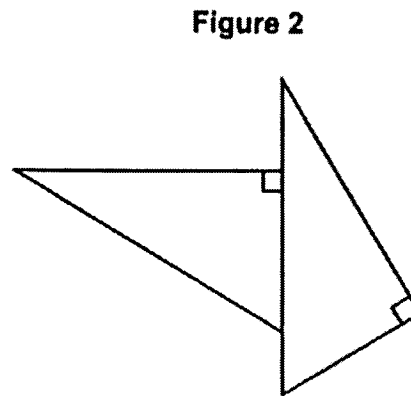
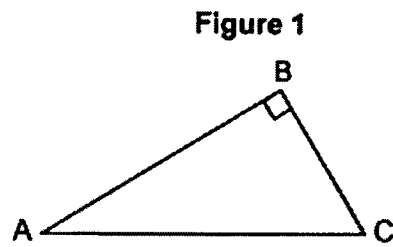
Mrs Han cut out a length of ribbon containing 41 .

What was the greatest possible number of  that were in the length of stickers Mrs Han cut out?



- (1) 81
- (2) 82
- (3) 83
- (4) 84

18. Figure 1 shows a right-angled triangle with a perimeter of 40 cm. Figure 2 is made up of two such triangles. The perimeter of figure 2 is 64 cm. The length of AC is 17 cm.



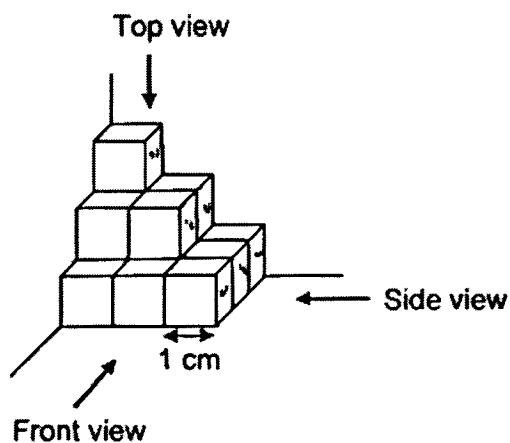
Find the area of one right-angled triangle.

- (1) 60 cm^2
- (2) 68 cm^2
- (3) 112.5 cm^2
- (4) 127.5 cm^2

Questions 19 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (24 marks)

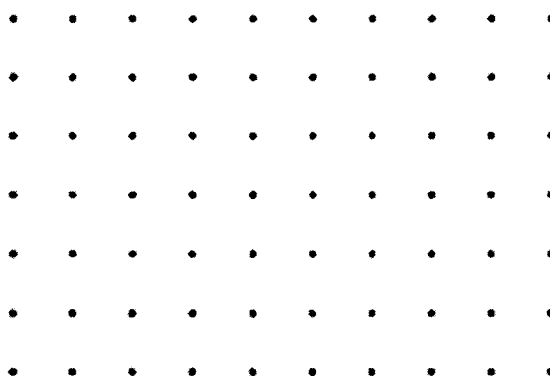
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19. The solid is made up of 14 cubes.

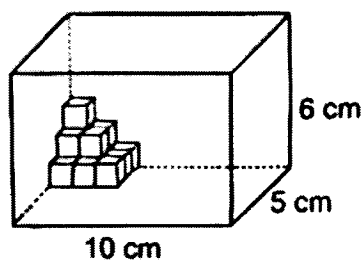


- (a) Draw the side view on the grid.

Side view

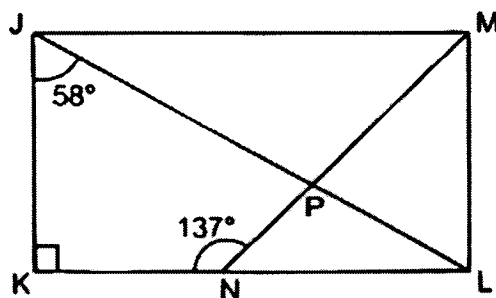


- 1(b) (b) The 14 cubes are then placed in a glass box as shown. How many more such cubes are needed to fill the box completely?



Ans: _____

20. In the figure, JKLM is a rectangle. JPL and MPN are straight lines. $\angle KJL = 58^\circ$ and $\angle KNM = 137^\circ$. Find $\angle JPM$.



Ans: _____°

21. The table shows the prices of buffet lunch at Sunny Spoon Restaurant.

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**Sunny Spoon Restaurant**
Delicious buffet lunch at great value!

Buffet Prices	
Adult	\$54 per adult
Child	\$42 per child
Family Package (2 adults and 2 children)	\$170

- (a) 3 adults had lunch. How much money did they pay altogether?

Ans: (a) \$ _____

- (b) What was the least amount of money that 5 adults and 4 children had to pay for the buffet lunch?

Ans: (b) \$ _____

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22. The table shows the prices of different types of pizzas sold at The Happy Crust.

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Type of pizza	Price per pizza
Pepperoni	$\$(k + 3)$
Hawaiian	$\$k$

- (a) Gillian bought 2 pepperoni and 3 hawaiian pizzas.
How much money did she spend altogether?
Give your answer in terms of k .

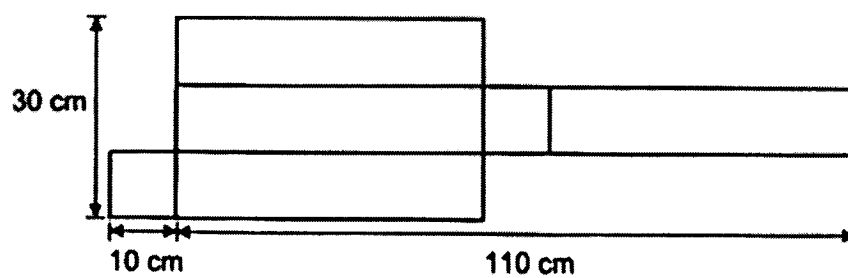
Ans: (a) \$ _____

- (b) Given $k = 12$, what was the total amount of money Gillian spent on the
2 pepperoni and 3 hawaiian pizzas?

Ans: (b) \$ _____

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23. The figure shows the net of a cuboid.



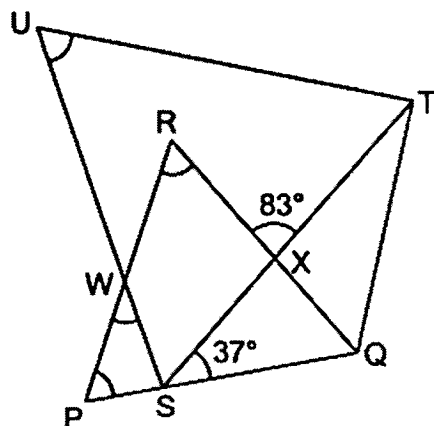
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Find the volume of the cuboid.

Ans: _____ cm^3

24. In the figure, PQR and STU are equilateral triangles. $\angle RXT = 83^\circ$.

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- (a) Find $\angle PWS$.

Ans: (a) _____°

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

	Statement	True	False	Not possible to tell
(i)	Triangle TXQ is a right-angled triangle.			
(ii)	Triangle PWS is an isosceles triangle.			

25. At a fun fair, 60 people participated in a game where they had to burst balloons within a given time. The table shows the number of balloons burst by each participant.

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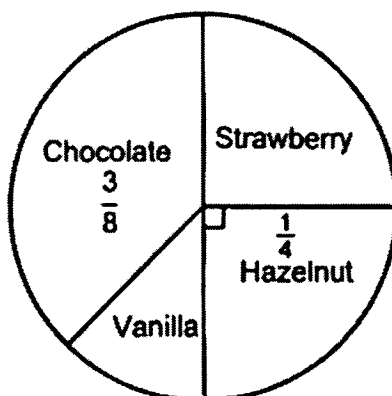
Number of balloons burst	0	1	2	3	4
Number of participants	14	19	13	8	6

What was the total number of balloons burst?

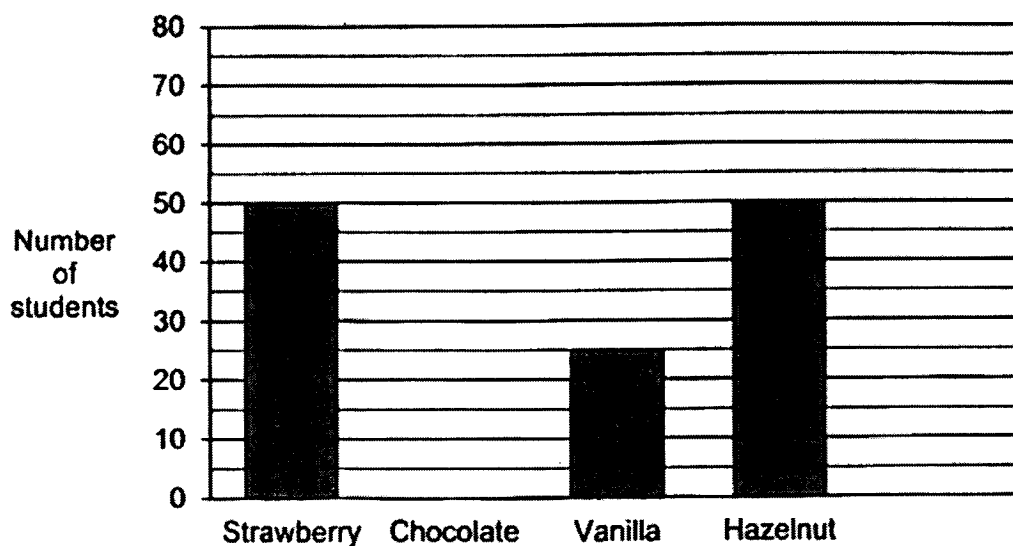
Ans: _____

26. The pie chart and bar graph show the favourite ice cream flavour of a group of students.

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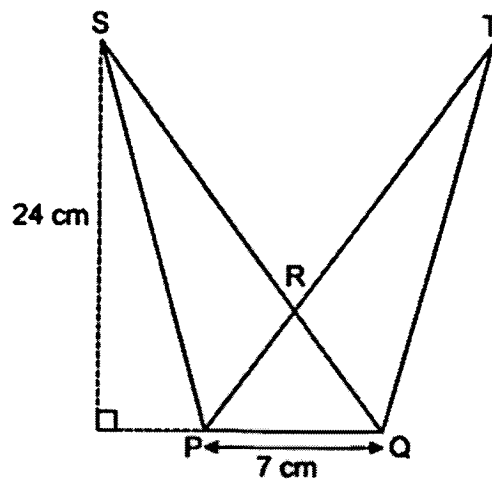
- (a) Draw the bar graph that shows the number of students who chose chocolate as their favourite ice cream flavour.



- (b) What percentage of the students chose vanilla as their favourite ice cream flavour?

Ans: (b) _____ %

27. Figure PSRTQ has an area of 140 cm^2 . PQ is a straight line. Triangle PQT and triangle PQS are identical.



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What is the area of triangle PRQ?

Ans: _____ cm^2

10

MARKS:

28. At Happy Plates Shop, Aubrey and Linsy each spent \$72 on some similar plates. As a member of Happy Plates Shop, Linsy was given a 25% discount. In the end, Linsy bought 2 more plates than Aubrey.

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- (a) How many plates did Linsy buy?

Ans: (a) _____

- (b) What was the cost of one plate before the discount?

Ans: (b) \$ _____

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29. At a food fair, for every purchase of 5 drumsticks, a discount of \$1 was given.

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Drumstick Sale!

\$2 for 1 drumstick

Buy 5 drumsticks, get a \$1 discount



Brayden gave the cashier \$60 and he received a change of \$4. How many drumsticks did he buy?

Ans: _____

30. Michelle bought some green and red apples. $\frac{1}{4}$ of the green apples and $\frac{1}{7}$ of the red apples were large. She bought 36 large apples altogether and $\frac{4}{9}$ of the large apples were green. What fraction of the apples were large red apples?

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Ans: _____

End of Paper

Name: _____

Class: _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 6 Mathematics

2026 Preliminary Examination

Paper 2

18 August 2026

Paper 1	/50
Paper 2	/50
Total Marks	/100

Parent's/Guardian's Signature

Time : 1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet

The use of an approved calculator is expected, where appropriate.

This booklet consists of 17 printed pages.

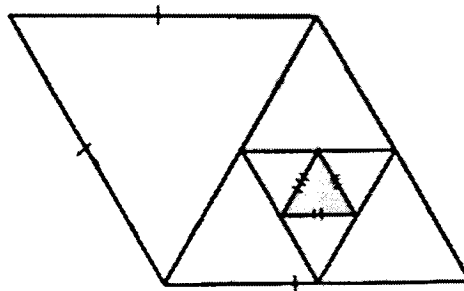
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. A ribbon measuring $1\frac{4}{5}$ m was cut into 2 pieces. The shorter piece was 37 cm long. What was the difference in length between the two pieces of ribbon?

Ans : _____ cm

2. The figure is made up of equilateral triangles of different sizes. The area of the shaded triangle is 8 cm^2 .



What is the total area of the unshaded parts?

Ans : _____ cm^2



3. The table shows the five activities that a group of children attended during the June holidays. Each child attended only one activity.

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Activity	Number of children
Art and Craft	84
Rock Climbing	153
Dance	?
Hiking	108
Robotics	216

- (a) The average number of children who attended each activity was 161.
How many children took part in Dance?

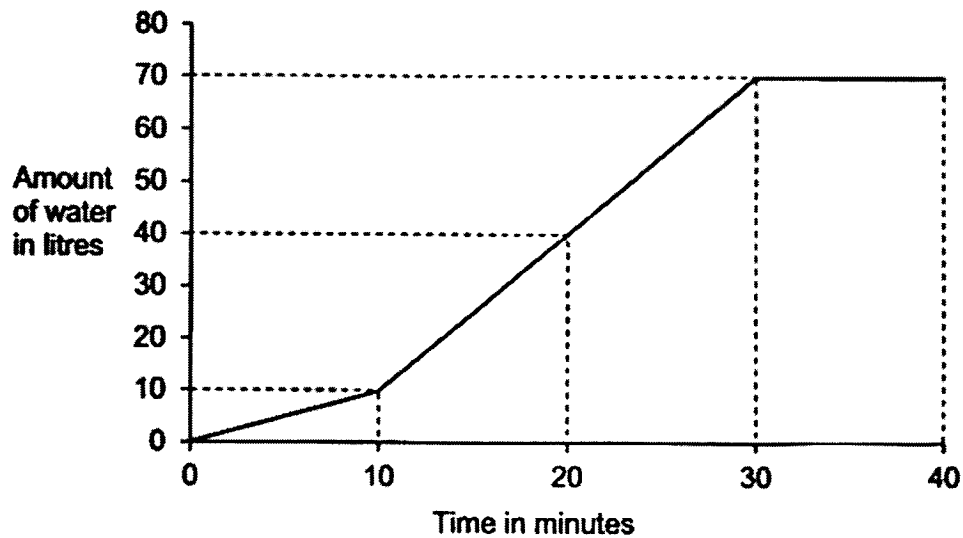
Ans : (a) _____

- (b) Each child paid \$80 to take part in Hiking. The total amount of money collected for Hiking was \$2424 more than the total amount collected for Art and Craft. How much did each child pay for Art and Craft?

Ans : (b) \$ _____

4. Derrick filled a tank with water using two taps. He turned on Tap A first. 10 minutes later, he turned on Tap B. Both taps were turned off at the same time when the tank was completely filled without overflowing.

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- (a) 10 minutes after Tap A was turned on, what fraction of the tank was filled? Leave your answer in the simplest form.

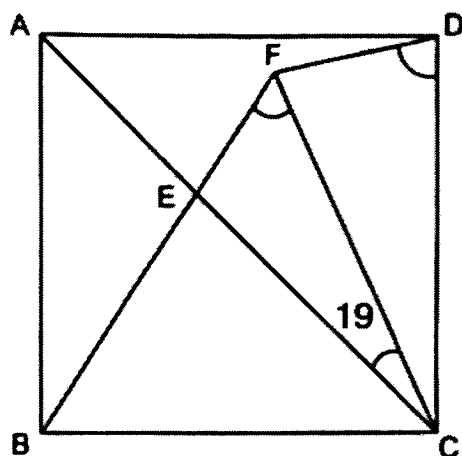
Ans : (a) _____

- (b) In one minute, how many litres of water flowed into the tank from both Tap A and Tap B?

Ans : (b) _____



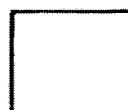
5. ABCD is a square and $CD = CF$. AC and BF are straight lines.



Find $\angle BFC$.

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Ans : _____



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

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6. Jar A and Jar B contained 946 marbles altogether. Jar A contained more marbles than Jar B. When another 280 marbles were put into Jar B, Jar A had 120 more marbles than Jar B. How many marbles did Jar B contain at first?

Ans : _____ [3]



7. An aquarium has three types of fish. There are $14n$ goldfish. There are $8n$ fewer guppies than goldfish. There are 4 more angelfish than guppies.

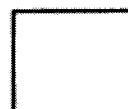
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- (a) Find the number of angelfish in terms of n .

Ans : _____ [1]

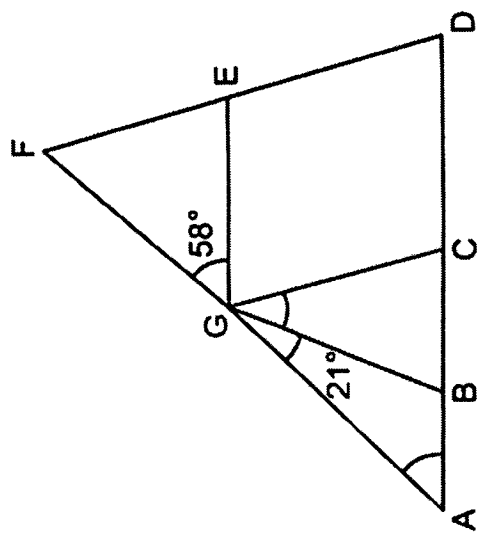
- (b) There are 76 angelfish. Find the value of n .

Ans : _____ [2]



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8. The figure shows a triangle ADF , a parallelogram $GCDE$ and an isosceles triangle BCG with $GB = GC$.



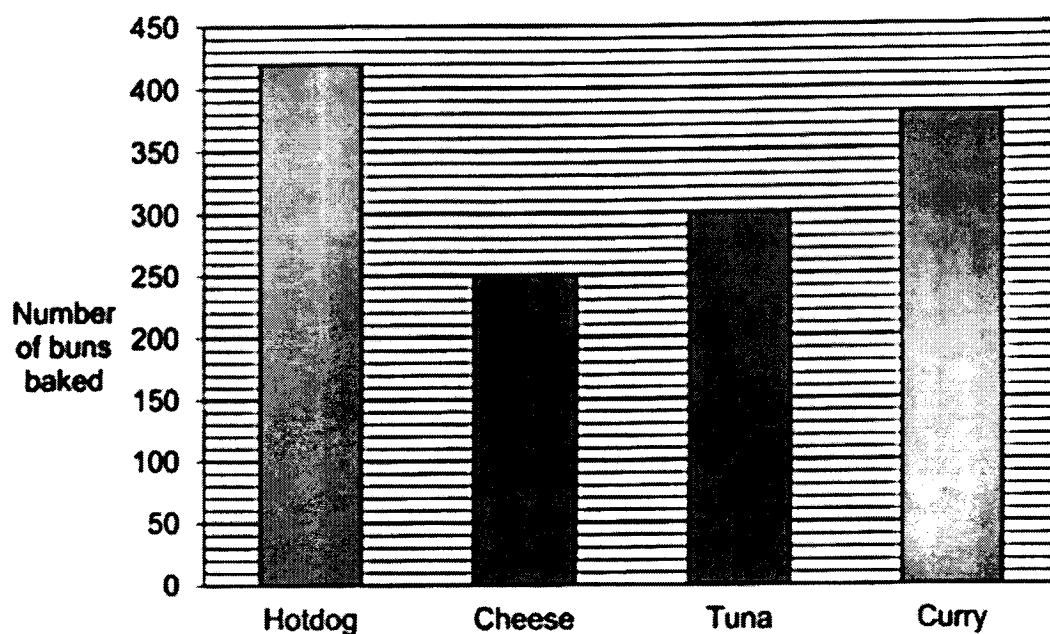
- (a) Find $\angle BGC$.

Ans : (a) _____ $^\circ$ [2]

- (b) Find $\angle EFG$.

Ans : (b) _____ $^\circ$ [1]

9. The bar graph shows the number of buns Mr Tong baked to sell.



The table shows the percentage of each type of buns that were not sold.

Type of buns	Hotdog	Cheese	Tuna	Curry
Percentage of each type of buns not sold	30%	14%	20%	15%

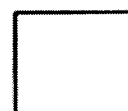
- (a) Find the ratio of the number of tuna buns baked to the number of tuna buns sold. Give your answer in the simplest form.

Ans : (a) _____ [2]

- (b) Mr Tong collected \$387 from selling cheese buns. How much did one cheese bun cost?

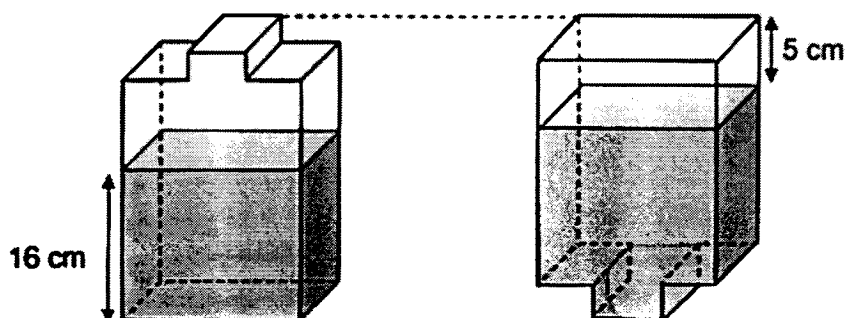
Ans : (b) \$ _____ [2]

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10. A bottle contains 1792 cm^3 of water when placed upright and the height of the water level is 16 cm. When the same bottle is turned upside down, there is a 5 cm gap between the base and the water level.

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- (a) What is the base area of the bottle?

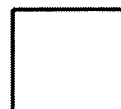
Ans: (a) _____ cm^2 [1]

- (b) What is the capacity of the bottle?

Ans : (b) _____ ml [2]

- (c) Half of the water in the bottle is poured into some empty containers. All the containers are filled to the brim. Each container has a capacity of 128 cm^3 . How many such containers are completely filled with water?

Ans : (c) _____ [1]



11. Amira, Bianca and Cecilia sold some bracelets. Each bracelet cost \$7.80.
Amira sold $\frac{1}{5}$ of the bracelets. Bianca and Cecilia sold the rest of the bracelets
in the ratio 3 : 2. Cecilia sold 102 more bracelets than Amira.

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- (a) How many bracelets did the three of them sell altogether?

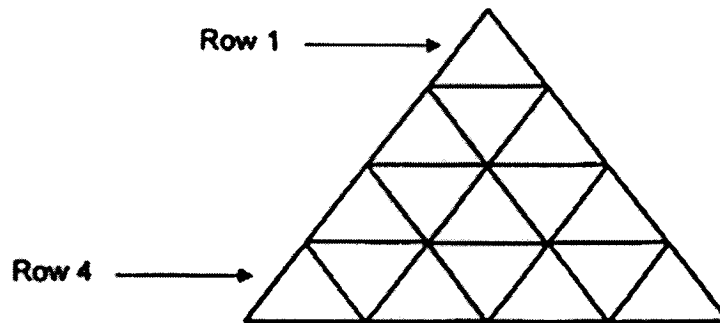
Ans : (a) _____ [3]

- (b) How much more money did Bianca collect than Amira?

Ans : (b) \$ _____ [1]



12. The figure is made up of rows of identical triangles.



Study the pattern carefully.

- (a) The table shows the number of triangles used for each row.
Fill in the table for Row 5.

Row number	1	2	3	4	5
Number of shaded triangles	1	2	3	4	5
Number of unshaded triangles	0	1	2	3	—
Total number of triangles	1	3	5	7	—

[1]

- (b) How many unshaded triangles are there in Row 200?

Ans : (b) _____ [1]

- (c) A row has a total number of 327 triangles. What is the row number?

Ans : (c) Row number _____ [2]

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13. Vivian bought some beads. She sewed $\frac{3}{7}$ of the beads onto 2 dresses and 7 skirts. She then had 960 beads left.

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- (a) What was the total number of beads Vivian sewed onto the 2 dresses and 7 skirts?

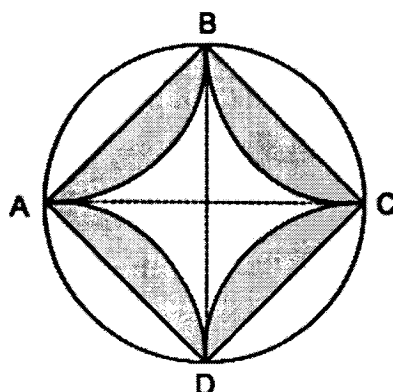
Ans : (a) _____ [2]

- (b) On each dress, Vivian sewed $\frac{1}{4}$ as many beads as she sewed onto each skirt. How many beads did she sew onto each skirt?



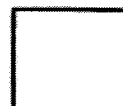
14. The figure shows a square, ABCD, in a circle. AC and BD are the diagonals of the square. The diameter of the circle is 56 cm.

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- (a) Find the total area of the shaded parts. (Take $\pi = \frac{22}{7}$)

Ans : (a) _____ cm² [2]



- (b) Square ABCD was cut out from the circle as shown in Figure 1. A number of such squares were pasted on a rectangular cardboard, 6.4 m long and 390 cm wide, following the pattern as shown. Figure 2 shows part of the arrangement. What is the greatest number of such squares that can be pasted on the cardboard?

Do not write in this space

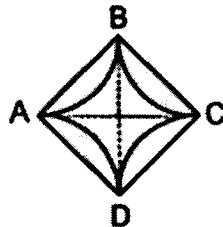


Figure 1

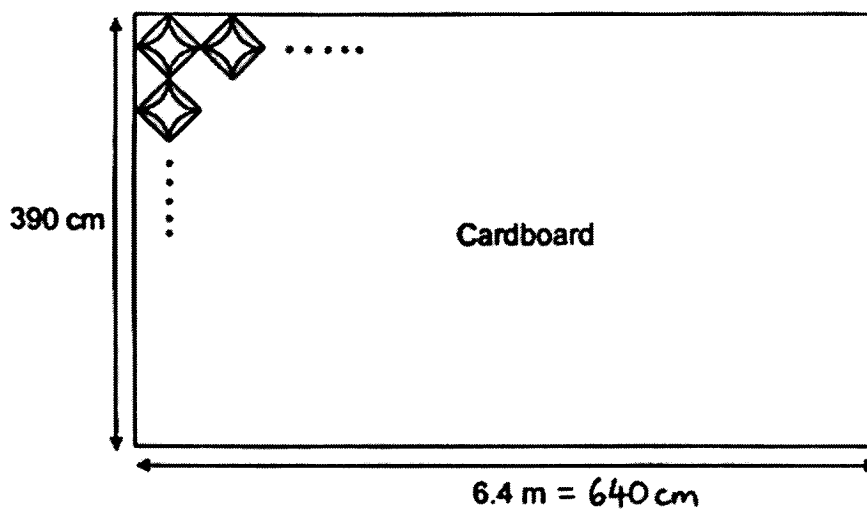


Figure 2

Ans : (b) _____ [2]



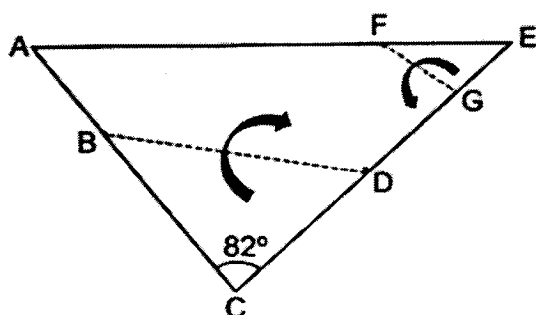
- (c) The greatest number of squares are pasted on the cardboard without overlapping. What is the area of the cardboard that is not covered by the squares?

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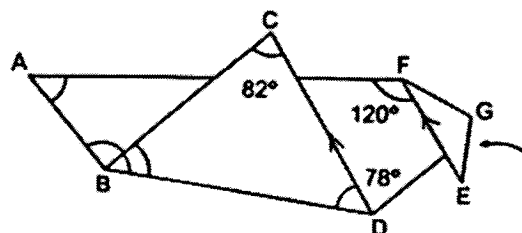
Ans : (c) _____ cm^2 [1]

15. Huahua has a triangular piece of paper ACE with $\angle ACE = 82^\circ$. She then folded along the lines BD and FG as shown in the figure.

Do not write in this space



Before folding



After folding

- (a) Find $\angle CBD$.

Ans : (a) _____° [1]

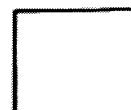
- (b) Find $\angle FAB$.

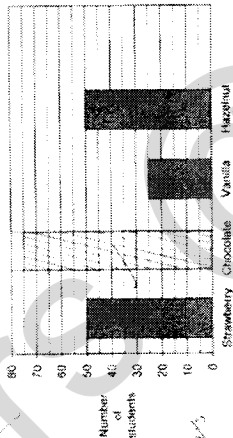
Ans : (b) _____° [3]

- (c) Circle the words that describe ABCD in the statement:

AB (is / is not) parallel to CD because $\angle ABD$ and $\angle BDC$
(add / do not add) up to 180° .

[1]



[illegible]

Q3(b)	74	Q4(a)	$1\frac{1}{7}$	Q4(b)	3
Q5	58	Q6	273	Q7(a)	$6n + 4$
Q7(b)	12	Q8(a)	22	Q8(b)	43
Q9(a)	5 : 4	Q9(b)	1.80	Q10(a)	112
Q10(b)	2352	Q10(c)	7	Q11(a)	850
Q11(b)	1856.40	Q12(a)	4; 9	Q12(b)	199
Q12(c)	164	Q13(a)	720	Q13(b)	96
Q14(a)	896	Q14(b)	66	Q14(c)	114112
Q15(a)	47	Q15(b)	56	Q15(c)	is not; do not add