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.

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

(26 marks)

---

1. 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

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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) $6.050 > 6.505$

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

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

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

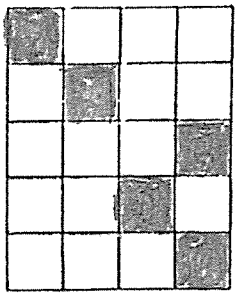
(3) $\frac{1}{2} \div 7$

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

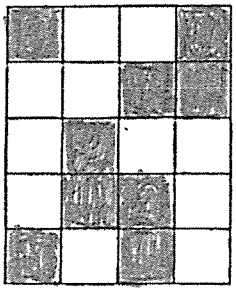
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5. Which one of the following shows that 40% of the figure is shaded?

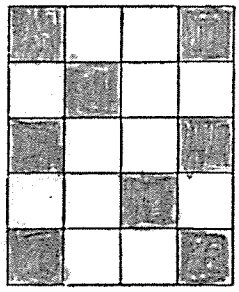
(1)



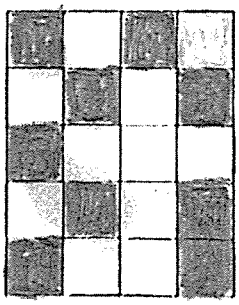
(2)



(3)



(4)



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6. Denker has a number of lemons, mangoes and pears in the ratio 8 : 3 : 9. What is the ratio of the number of pears to the total number of lemons and mangoes that Denker has?

(1) 9 : 11

(2) 9 : 20

(3) 11 : 9

(4) 20 : 9

7. The table shows the number of plates of spaghetti a group of students ate.

Number of plates	0	1	2	3	4	5
Number of students	3	12	17	8	16	4

How many students ate fewer than 3 plates of spaghetti?

(1) 20

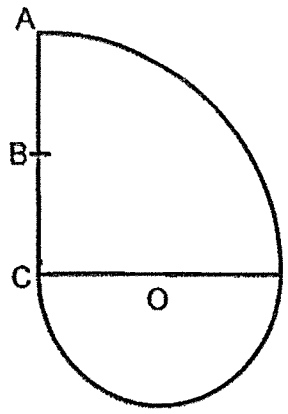
(2) 28

(3) 32

(4) 40

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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 $\pi = \frac{22}{7}$)



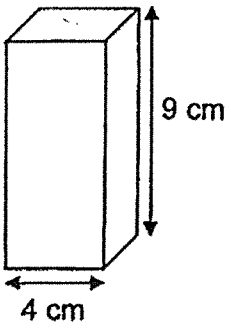
(1) 47 cm

(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

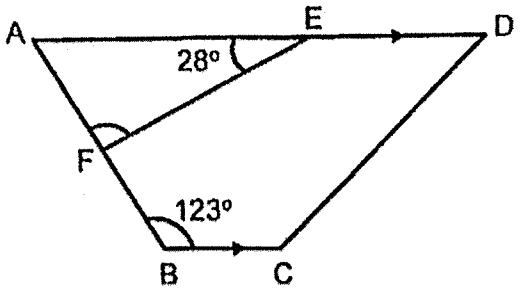
(2) 72 cm^3

(3) 144 cm^3

(4) 324 cm^3

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10. ABCD is a trapezium. Find ∠AFE.



(1) 57°

(2) 95°

(3) 124°

(4) 152°

11. Which of the following fractions is closest to $\frac{1}{2}$?

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

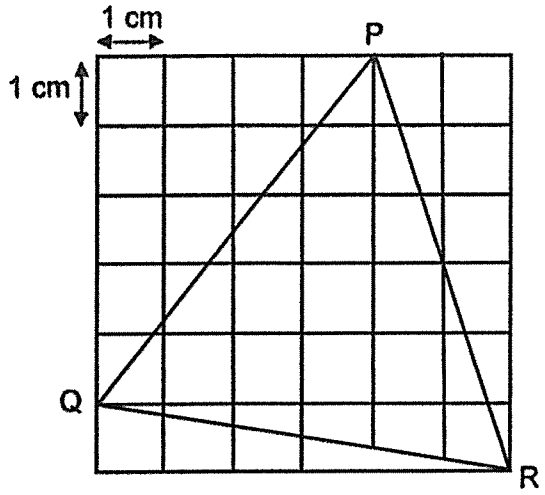
(2) $\frac{4}{7}$

(3) $\frac{5}{8}$

(4) $\frac{7}{10}$

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12. Find the area of triangle PQR.



(1) 16 cm^2

(2) 17 cm^2

(3) 18 cm^2

(4) 19 cm^2

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

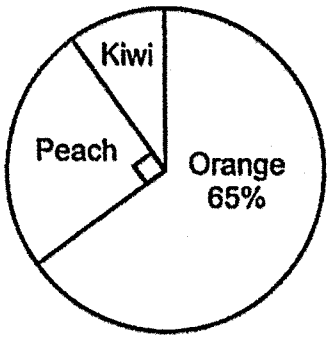
(3) 450 g

(4) 600 g

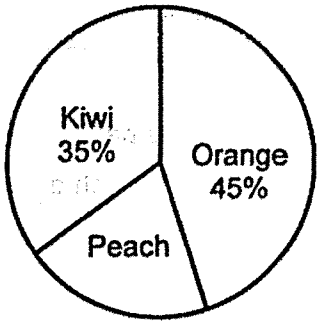
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14. The pie charts show the number of each type of fruits in two baskets, A and B. The total number of fruits in Basket A is twice the total number of fruits in Basket B.

Basket A



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.

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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

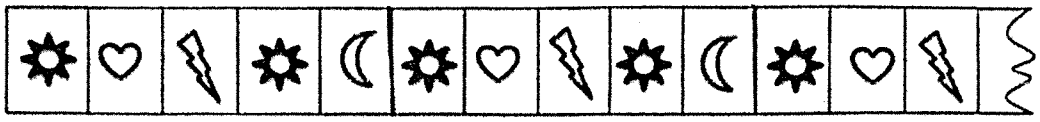
(4) 54 ℓ

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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

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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.

Figure 1

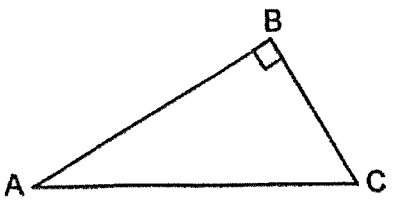
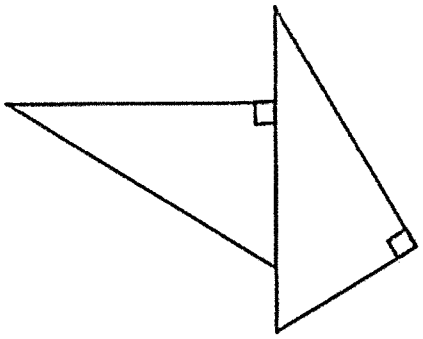


Figure 2



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

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Name: _____ ( )

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2026 Preliminary Examination

Paper 1

Booklet B

18 August 2026

Booklet A	26
Booklet B	24
Total (Paper 1)	50

12 questions
24 marks

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

INSTRUCTIONS TO CANDIDATES

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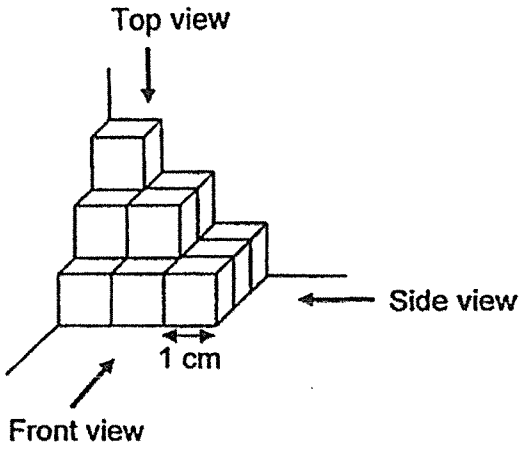
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Questions 19 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (24 marks)

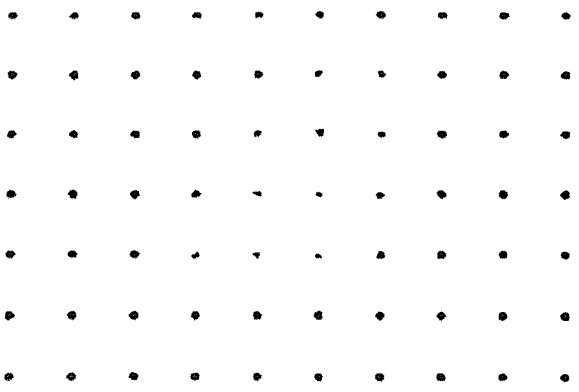
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19. The solid is made up of 14 cubes.



(a) Draw the side view on the grid.

Side view

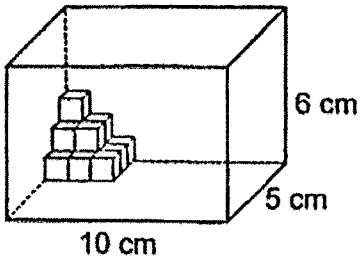


MARKS:

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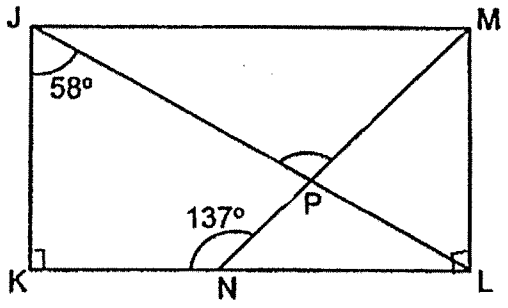
(b) The 14 cubes are then placed in a glass box as shown. How many more such cubes are needed to fill the box completely?

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Ans: _____

20. In the figure, JKLM is a rectangle. JPL and MPN are straight lines. ∠KJL = 58° and ∠KNM = 137°. Find ∠JPM.

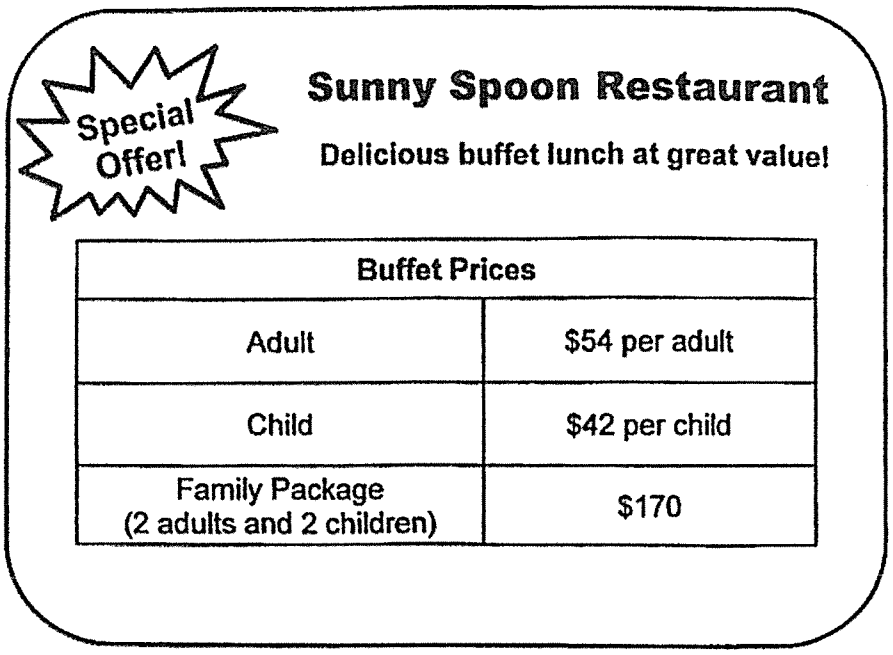


Ans: _____°

MARKS: ☐

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



(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) $_____

MARKS: [ ]

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

Do not write in this space

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) $ _____

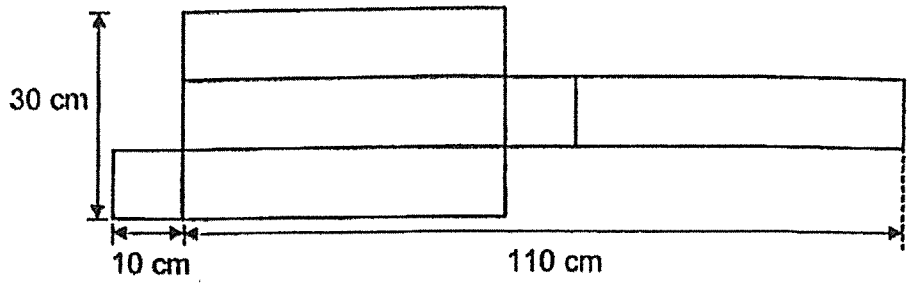
(b) Given $k = 12$, what was the total amount of money Gillian spent on the 2 pepperoni and 3 hawaiian pizzas?

Ans: (b) $ _____

MARKS: [ ]

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23. The figure shows the net of a cuboid.



Find the volume of the cuboid.

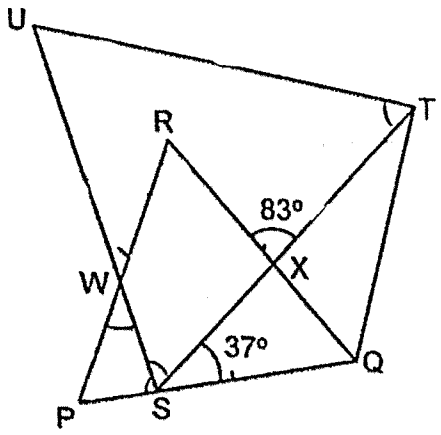
Ans: _____ cm^3

MARKS:

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

Do not write in this space



(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
Triangle TXQ is a right-angled triangle.			
Triangle PWS is an isosceles triangle.			

MARKS:

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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.

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?

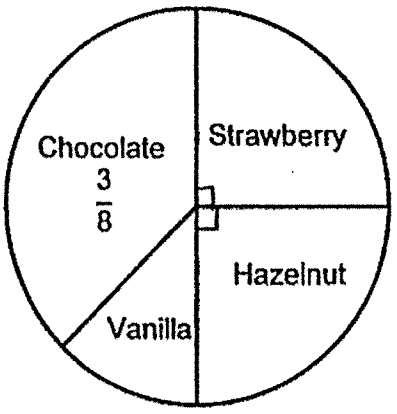
Ans: _____

MARKS:

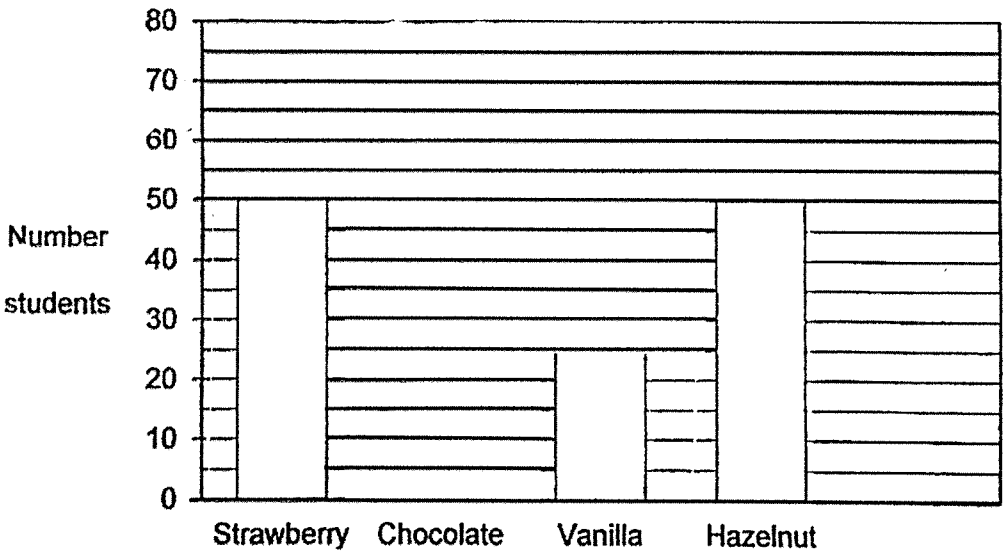
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26. The pie chart and bar graph show the favourite ice cream flavour of a group of students.

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



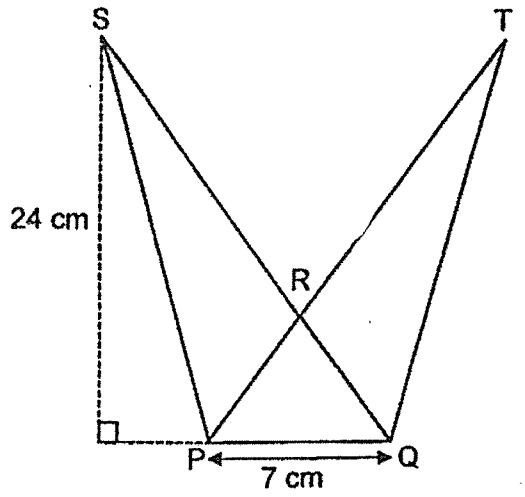
(b) What percentage of the students chose vanilla as their favourite ice cream flavour?

Ans: (b) _____ %

MARKS:

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



What is the area of triangle PRQ?

Ans: _____ cm^2

MARKS:

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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.

Do not write in this space

(a) How many plates did Linsy buy?

Ans: (a) _____

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

Ans: (b) $_____

MARKS: [ ]

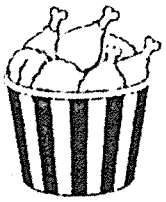
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29. At a food fair, for every purchase of 5 drumsticks, a discount of $1 was given.

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:_____

MARKS: ☐

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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?

Do not write in this space

Ans: _____

End of Paper

MARKS: [ ]

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Name: _____ ( )

Class: Primary 6 _____

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.

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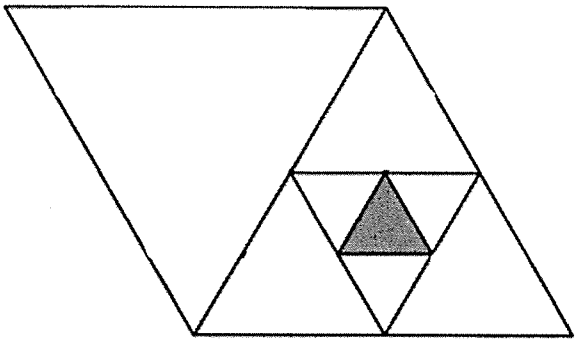
Questions 1 to 5 carry 2 marks each. **Show your working clearly** and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

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

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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) _____

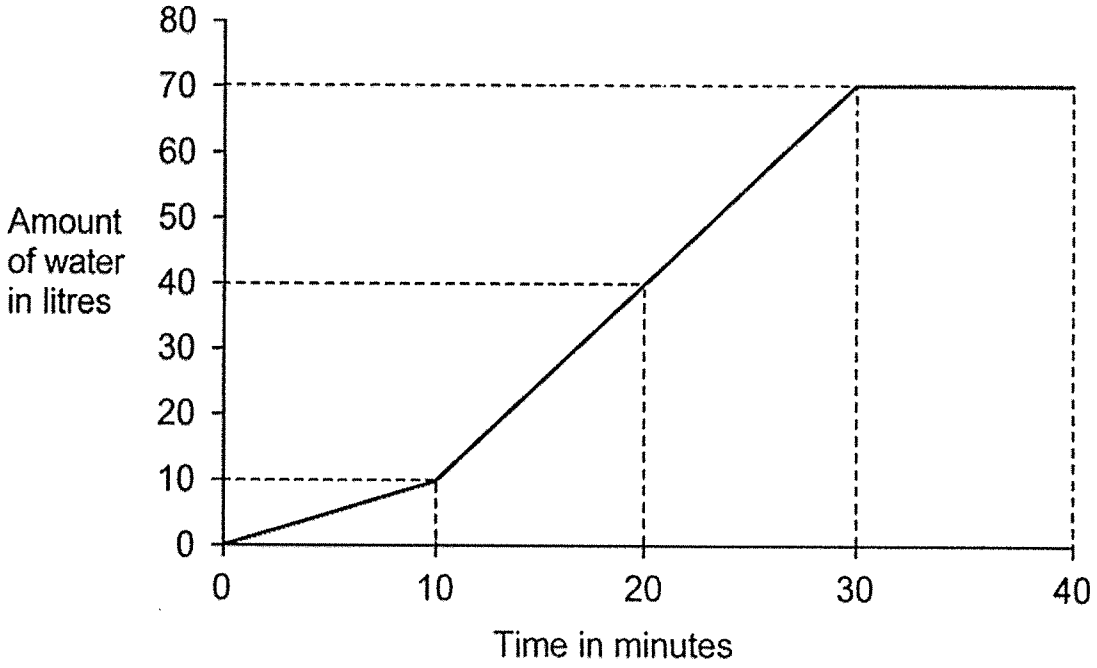
(b) Each child paid $80 to take part in Hiking. The total amount of money collected for Hiking was $2424 more than the total amount collected for Art and Craft. How much did each child pay for Art and Craft?

Ans : (b) $ _____

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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) _____

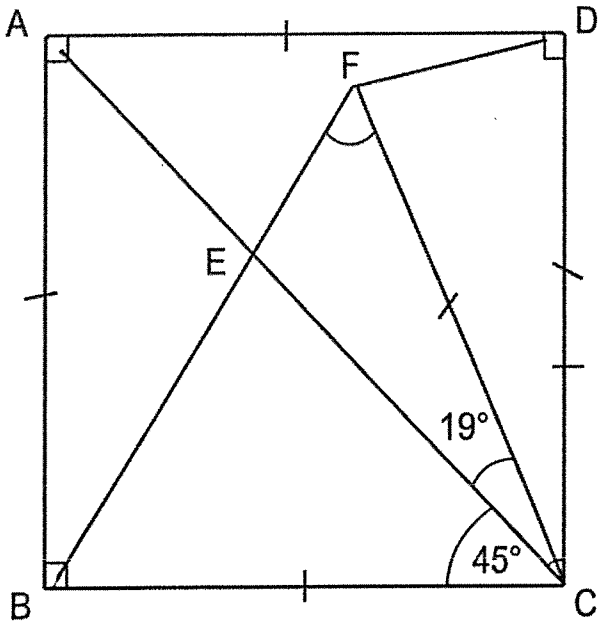
(b) In one minute, how many litres of water flowed into the tank from both Tap A and Tap B?

Ans : (b) _____ ℓ

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

Do not write in this space



Find $\angle BFC$.

Ans : _____ °

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

Do not write in this space

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]

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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.

Do not write in this space

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

Ans : _____ [1]

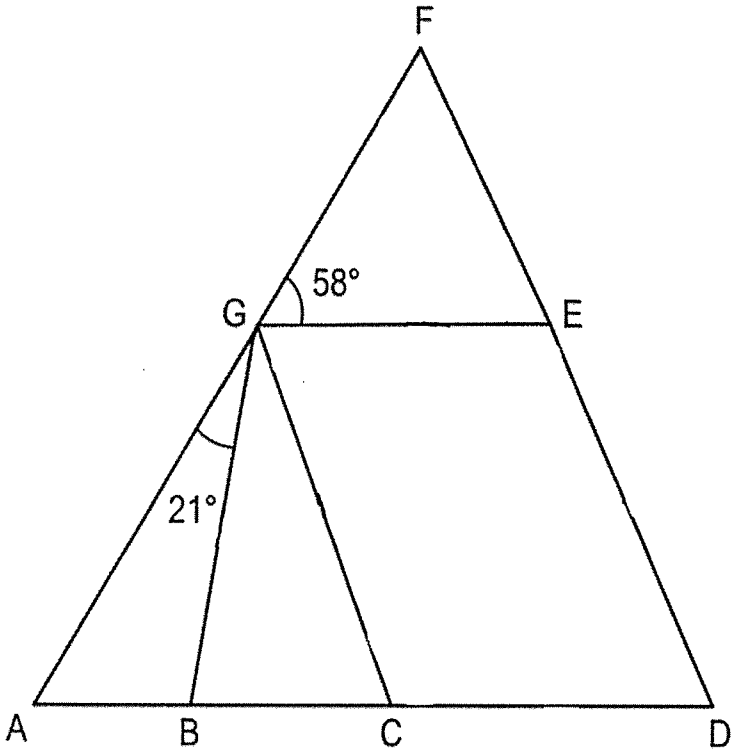
(b) There are 76 angelfish. Find the value of n.

Ans : _____ [2]

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

Do not write in this space



(a) Find $\angle BGC$.

Ans : (a) _____ ° [2]

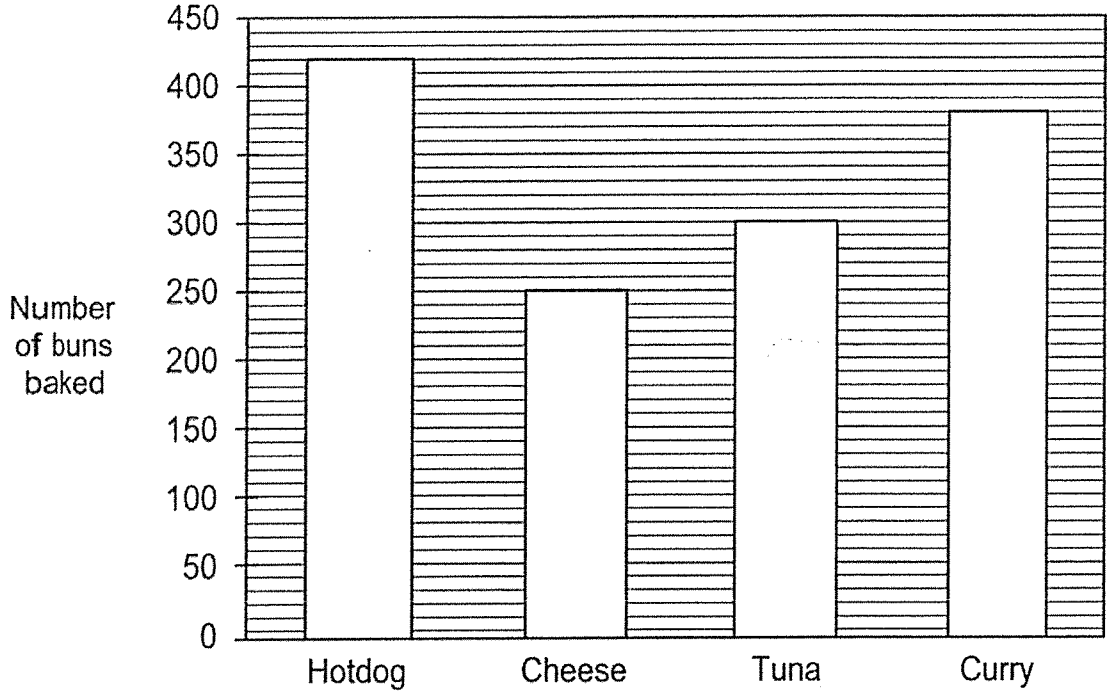
(b) Find $\angle EFG$.

Ans : (b) _____ ° [1]

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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]

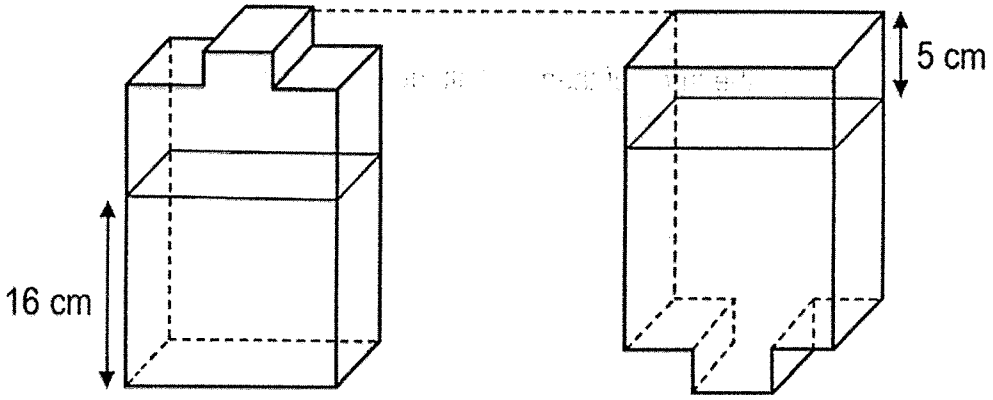
(b) Mr Tong collected $387 from selling cheese buns. How much did one cheese bun cost?

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]

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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.

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

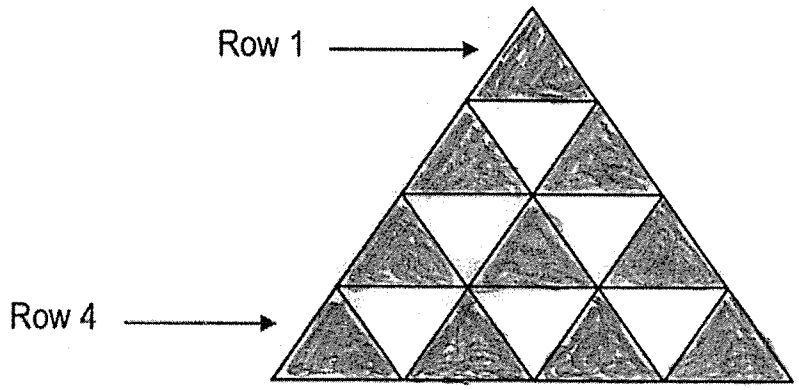
Ans : (a) _____ [3]

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

Ans : (b) $ _____ [1]

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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.

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

Ans : (a) _____ [2]

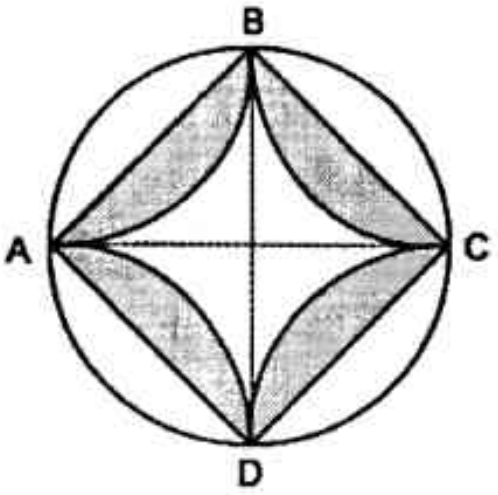
(b) On each dress, Vivian sewed $\frac{1}{4}$ as many beads as she sewed onto each skirt. How many beads did she sew onto each skirt?

Ans : (b) _____ [3]

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14. The figure shows a square, ABCD, in a circle. AC and BD are the diameters of the circle. 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) _____ cm^2 [2]

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(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?

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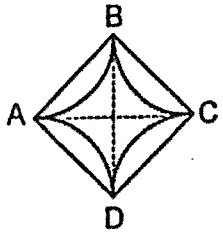


Figure 1

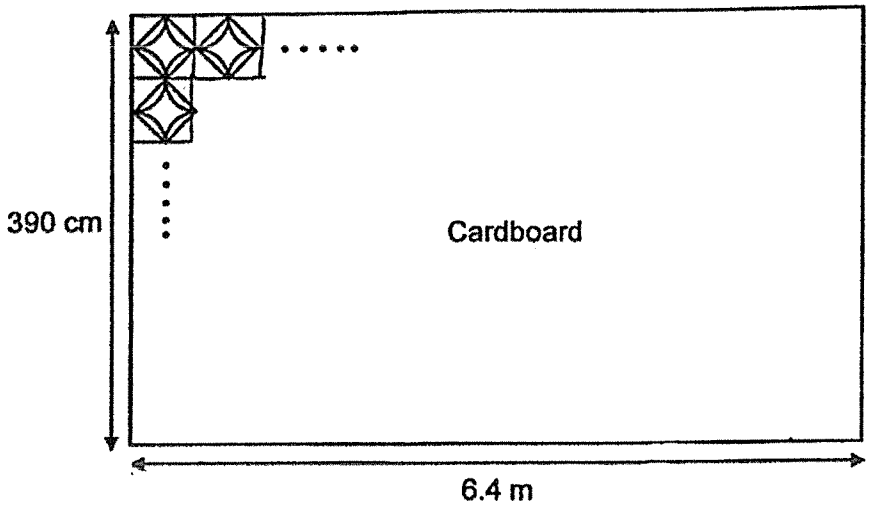


Figure 2

Ans : (b) _____ [2]

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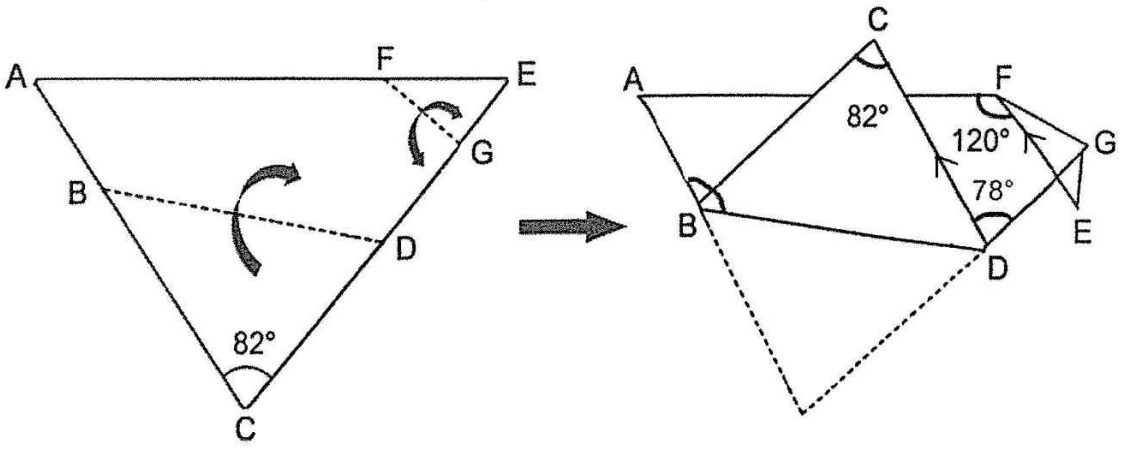
(c) The greatest number of squares are pasted on the cardboard without overlapping. What is the area of the cardboard that is not covered by the squares?

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

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

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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]

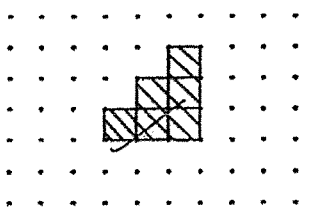
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YEAR : 2026
LEVEL : PRIMARY 6
SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATION

(BOOKLET A)

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

(BOOKLET B)

Q19	Side view  (b) $10 \div 1 = 10$; $5 \div 1 = 5$; $6 \div 1 = 6$ $10 \times 5 \times 6 = 300$ $300 - 14 = 286$ Answer: 286 cubes	Q20	$180° - 137° = 43°$ $180° - 58° - 90° = 32°$ $180° - 43° - 32° = 105°$ Answer: 105°
Q21	(a) $54 \times 3 = 162$ Answer: \$162 (b) $170 \times 2 + 54 = 394$ Answer: \$394	Q22	(a) $(k + 3) \times 2 + k \times 3$ $= 2k + 6 + 3k$ $= 5k + 6$ Answer: $\$(5k + 6)$ (b) $12 \times 5 + 6 = 66$ Answer: \$66
Q23	$30 \div 3 = 10$ $(110 - 10) \div 2 = 50$ $10 \times 10 \times 50 = 5000$ Answer: 5000 cm^3	Q24	(a) $180° - 60° - 37° = 83°$ $180° - 83° - 60° = 37°$ Answer: 37° (b) False , False
Q25	$1 \times 19 = 19$ $2 \times 13 = 26$ $3 \times 8 = 24$ $4 \times 6 = 24$ $19 + 26 + 24 + 24 = 93$ Answer: 93 balloons	Q26	(a) $\frac{1}{4}$ = 50 students, so total = 200 $\frac{3}{8} \times 200 = 75$ Bar graph: Chocolate = 75 students (b) Vanilla = 25 students $\frac{25}{200} \times 100\% = 12.5\%$ Answer: 12.5%

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Q27	$\frac{1}{2} \times 7 \times 24 = 84$ $84 \times 2 = 168$ $168 - 140 = 28$ Answer: 28 cm²	Q28	(a) 25% = 2 plates 100% = 2 × 4 = 8 plates Answer: 8 plates (b) \$24 ÷ 2 = \$12 Answer: \$12
Q29	\$60 - \$4 = \$56 5 drumsticks cost \$10 - \$1 = \$9 \$56 = 6 sets of \$9 + \$2 6 × 5 + 1 = 31 Answer: 31 drumsticks	Q30	$\frac{4}{9} \times 36 = 16$ large green apples 36 - 16 = 20 large red apples 16 × 4 = 64 green apples 20 × 7 = 140 red apples $\frac{20}{64+140} = \frac{20}{204} = \frac{5}{51}$ Answer: $\frac{5}{51}$

PAPER 2

Q1	$1\frac{4}{5}$ m = 180 cm 180 - 37 = 143 cm 143 - 37 = 106 cm Answer: 106 cm	Q2	4 × 4 × 8 = 128 cm² 128 × 2 = 256 cm² 256 - 8 = 248 cm² Answer: 248 cm²
Q3	(a) 161 × 5 = 805 805 - 84 - 153 - 108 - 216 = 244 Answer: 244 children (b) \$80 × 108 = \$8640 \$8640 - \$2424 = \$6216 \$6216 ÷ 84 = \$74 Answer: \$74	Q4	(a) $\frac{10}{70} = \frac{1}{7}$ Answer: $\frac{1}{7}$ (b) (70 - 10) ÷ (30 - 10) = 3 Answer: 3 litres
Q5	90° ÷ 2 = 45° 45° + 19° = 64° (180° - 64°) ÷ 2 = 58° Answer: 58°	Q6	946 + 280 + 120 = 1346 1346 ÷ 2 = 673 673 - 120 - 280 = 273 Answer: 273 marbles
Q7	(a) 14n - 8n = 6n 6n + 4 Answer: 6n + 4 (b) 6n + 4 = 76 6n = 72 n = 12 Answer: 12	Q8	(a) 180° - 21° - 58° = 101° 180° - 79° × 2 = 22° Answer: 22° (b) 180° - 58° - 79° = 43° Answer: 43°
Q9	(a) 100% - 20% = 80% 100 : 80 = 5 : 4 Answer: 5 : 4 (b) 86% × 250 = 215 buns sold \$387 ÷ 215 = \$1.80 Answer: \$1.80	Q10	(a) 1792 ÷ 16 = 112 Answer: 112 cm² (b) 5 × 112 = 560 560 + 1792 = 2352 Answer: 2352 ml (c) 1792 ÷ 2 = 896 896 ÷ 128 = 7 Answer: 7 containers

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Q11	(a) A : B : C = 5 : 12 : 8 8 - 5 = 3 units 102 ÷ 3 = 34 34 × 25 = 850 Answer: 850 bracelets (b) 12 - 5 = 7 units 34 × 7 = 238 bracelets 238 × $7.80 = $1856.40 Answer: $1856.40	Q12	(a) Row 5: 5 shaded, 4 unshaded, 9 total (b) 200 - 1 = 199 Answer: 199 (c) 327 - 1 = 326 326 ÷ 2 = 163 163 + 1 = 164 Answer: Row 164
Q13	(a) $1 - \frac{3}{7} = \frac{4}{7}$ $\frac{1}{7} = 960 \div 4 = 240$ $\frac{3}{7} = 240 \times 3 = 720$ Answer: 720 beads (b) $2 \times \frac{1}{4} + 7 = 7.5$ units 720 ÷ 7.5 = 96 Answer: 96 beads	Q14	(a) 56 ÷ 2 = 28 cm $\frac{22}{7} \times 28 \times 28 = 2464$ cm² $\frac{1}{2} \times 56 \times 56 = 1568$ cm² 2464 - 1568 = 896 cm² Answer: 896 cm² (b) 640 ÷ 56 = 11 R 24 390 ÷ 56 = 6 R 54 11 × 6 = 66 Answer: 66 squares (c) 640 × 390 = 249600 cm² 1568 × 66 = 103488 cm² 249600 - 103488 = 146112 cm² Answer: 146112 cm²
Q15	(a) (180° - 78°) ÷ 2 = 51° 180° - 82° - 51° = 47° Answer: 47° (b) 180° - 120° = 60° 360° - 120° - 133° - 51° = 56° Answer: 56° (c) AB is not parallel to CD because the angles do not add up to 180°.		

3

END

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