

HENRY PARK PRIMARY SCHOOL  
2026 PRELIMINARY EXAMINATION  
MATHEMATICS  
PRIMARY 6

PAPER 1  
(BOOKLET A)

Name: \_\_\_\_\_ (      )

Parent's Signature

Class: Primary 6 \_\_\_\_\_

\_\_\_\_\_

Date: 18 August 2026

|         |           |     |
|---------|-----------|-----|
| Paper 1 | Booklet A | 26  |
|         | Booklet B | 24  |
| Paper 2 |           | 50  |
| Total   |           | 100 |

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

Additional Materials: Optical Answer Sheet (OAS)

**INSTRUCTIONS TO STUDENTS**

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

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 in the Optical Answer Sheet.

(26 marks)

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1 What is the value of the digit 6 in 3 560 412?

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

2 What are the missing numbers in the blanks?

The number 8 is a factor of \_\_\_\_\_ and \_\_\_\_\_.

- (1) 2, 4
- (2) 8, 18
- (3) 32, 40
- (4) 16, 36

3  $50 + \frac{5}{10} + \frac{5}{1000} = \underline{\hspace{2cm}}$

- (1) 50.05
- (2) 50.55
- (3) 50.055
- (4) 50.505

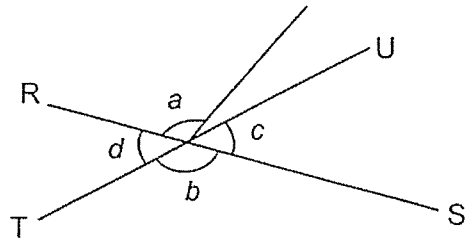
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- 4 Arrange the following fractions from the smallest to the greatest:  $\frac{11}{8}$ ,  $1\frac{3}{4}$ ,  $\frac{7}{5}$

|     | <u>Smallest</u>  |                  | <u>Greatest</u> |
|-----|------------------|------------------|-----------------|
| (1) | $\frac{7}{5}$ ,  | $\frac{11}{8}$ , | $1\frac{3}{4}$  |
| (2) | $\frac{11}{8}$ , | $1\frac{3}{4}$ , | $\frac{7}{5}$   |
| (3) | $\frac{11}{8}$ , | $\frac{7}{5}$ ,  | $1\frac{3}{4}$  |
| (4) | $1\frac{3}{4}$ , | $\frac{11}{8}$ , | $\frac{7}{5}$   |

- 5 In the figure below, RS and UT are straight lines. Which of the following statements is true?

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



- 6 A printing machine can print 45 pages in 3 minutes. At this rate, how many pages can the printing machine print in 5 minutes?
- (1) 9  
 (2) 15  
 (3) 75  
 (4) 225

- 7 Jiayu and his brother took part in a run. They started running at the same time. Jiayu took 2 h 20 min to complete the run while his brother was faster than him by 30 minutes. Jiayu's brother completed the run at 11:35 am. What time did they start running?

- (1) 8:45 am
- (2) 9:10 am
- (3) 9:15 am
- (4) 9:45 am

- 8 Figure 1 shows the net of a cube. Which cube is formed by the given net?

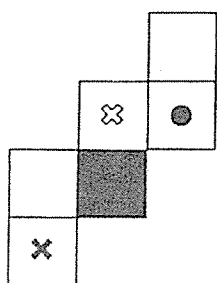
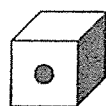
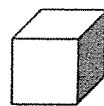


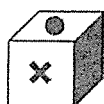
Figure 1



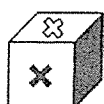
Cube A



Cube B



Cube C



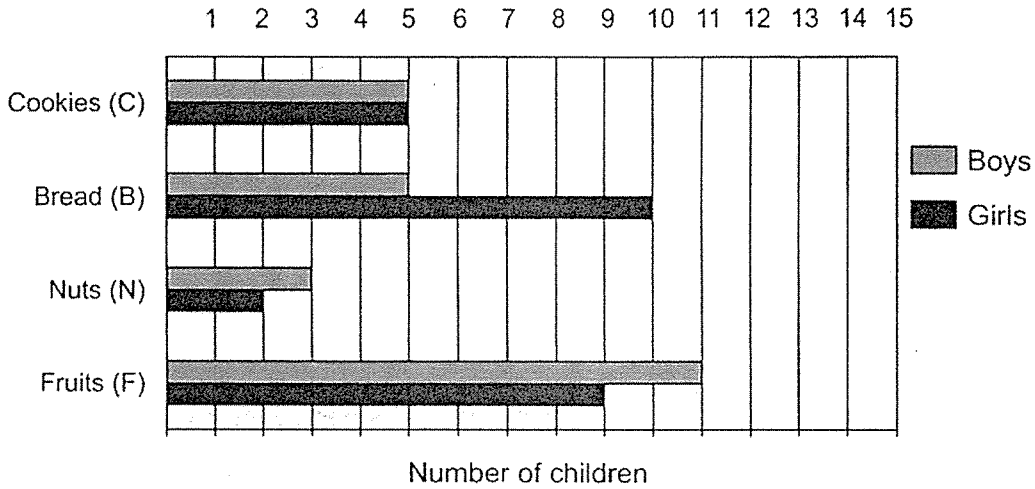
Cube D

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

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Use the information below to answer Questions 9 and 10.

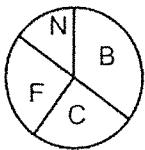
The bar graph shows the favourite snacks of some children. The number is not shown on the scale.



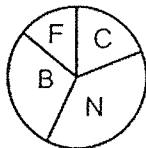
9 What percentage of the children who chose nuts as their favourite snack are boys?

- (1) 6 %
- (2) 10 %
- (3) 30 %
- (4) 60 %

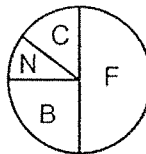
10 Which pie chart best represents the information in the bar graph?



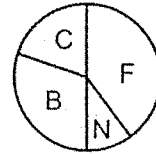
(1)



(2)

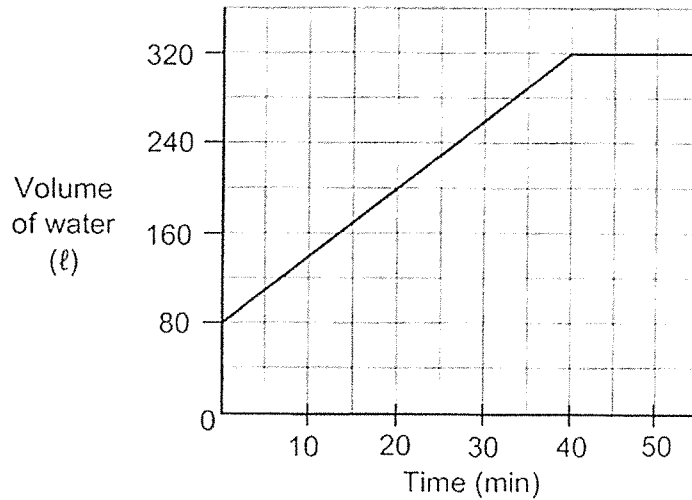


(3)



(4)

- 11 A tank was partially filled with water. A tap was turned on for 40 minutes to fill the tank completely. The line graph shows the volume of water in the tank over a period of time.

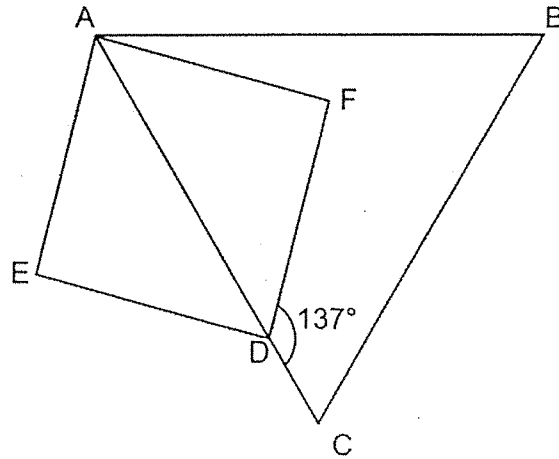


How many litres of water flowed out of the tap in 1 minute?

- (1) 4.8 ℓ
  - (2) 6 ℓ
  - (3) 6.4 ℓ
  - (4) 8 ℓ
- 12 A string was first cut into two pieces in the ratio 1 : 3. The longer piece was then cut into two pieces in the ratio 2 : 3. The difference between the longest and the shortest piece of string was 96 cm. What is the original length of the string before it was cut?
- (1) 192 cm
  - (2) 360 cm
  - (3) 480 cm
  - (4) 640 cm

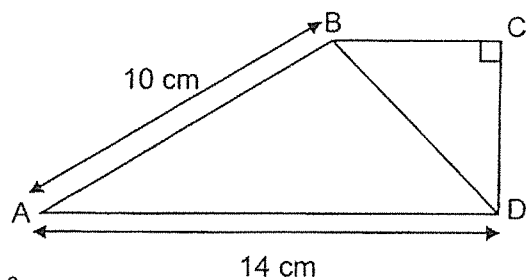
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- 13 ABC is an equilateral triangle. AFDE is a rhombus.  $\angle CDF$  is  $137^\circ$ . Find  $\angle BAF$ .

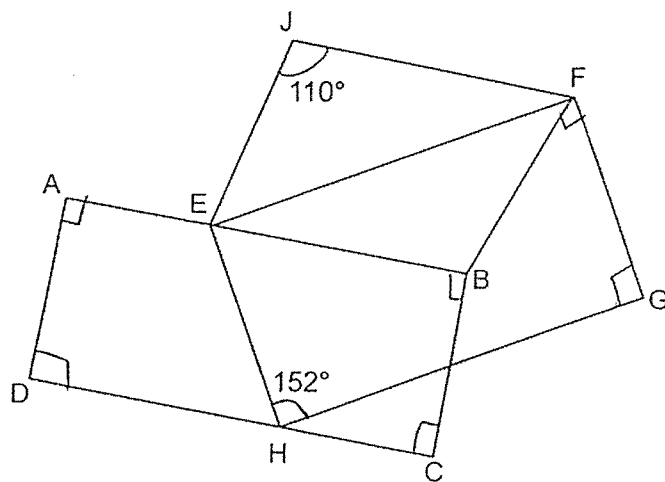


- (1)  $15^\circ$
- (2)  $17^\circ$
- (3)  $30^\circ$
- (4)  $43^\circ$
- 14 There were 4 times as many boys as girls in the hall. After  $\frac{1}{3}$  of the boys left the hall and 40 more girls entered the hall, the number of boys and girls became the same. How many pupils were there in the hall at first?
- (1) 60
- (2) 75
- (3) 120
- (4) 128

- 15 The figure below is made up of 2 triangles. The perimeter of the figure is 40 cm and  $BC = CD$ . Find the area of the figure.



- (1)  $80 \text{ cm}^2$   
 (2)  $88 \text{ cm}^2$   
 (3)  $102 \text{ cm}^2$   
 (4)  $160 \text{ cm}^2$
- 16 ABCD and EFGH are rectangles. BEJF is a trapezium.  $BE \parallel FJ$ .  $\angle DHG$  is  $152^\circ$  and  $\angle EJF$  is  $110^\circ$ . Find  $\angle JEF$ .



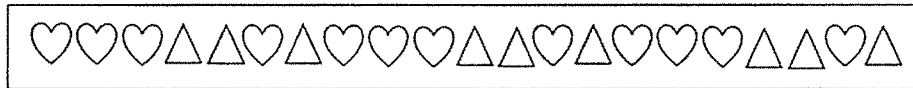
- (1)  $42^\circ$   
 (2)  $38^\circ$   
 (3)  $35^\circ$   
 (4)  $34^\circ$

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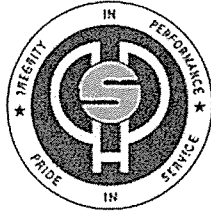
- 17 Danny, Eric and Faizal shared some marbles. Danny took 84 marbles first. Eric then took  $\frac{1}{7}$  of the remaining marbles and Faizal took the rest of the marbles. The number of marbles Faizal took was  $\frac{3}{4}$  of the total number of marbles. How many marbles were there in total?

- (1) 672
- (2) 784
- (3) 336
- (4) 112

- 18 The figure shows part of a pattern formed by hearts and triangles. There are 55 hearts altogether. What is the greatest possible number of hearts and triangles in the pattern?



- (1) 91
- (2) 94
- (3) 96
- (4) 97



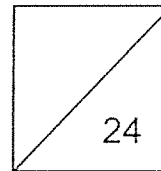
HENRY PARK PRIMARY SCHOOL  
2026 PRELIMINARY EXAMINATION  
MATHEMATICS  
PRIMARY 6

PAPER 1  
(BOOKLET B)

Name: \_\_\_\_\_ (      )

Class: Primary 6 \_\_\_\_\_

Date: 18 August 2026



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

**INSTRUCTIONS TO STUDENTS**

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

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

(24 marks)

- 
- 19 (a) Find the value of  $14 - 0.52$

Ans: (a) \_\_\_\_\_

- (b) Express 3.05 as a mixed number in its simplest form.

Ans: (b) \_\_\_\_\_

- 
- 20 (a) Find the value of  $30 - 20 \div 5 + 2 \times 7$

Ans: (a) \_\_\_\_\_

- (b) Find the value of  $7 \div 8$ . Give your answer as a decimal.

Ans: (b) \_\_\_\_\_

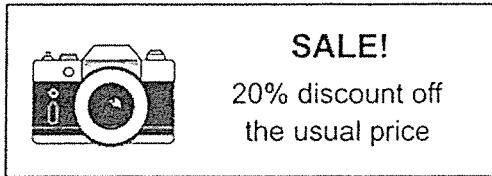
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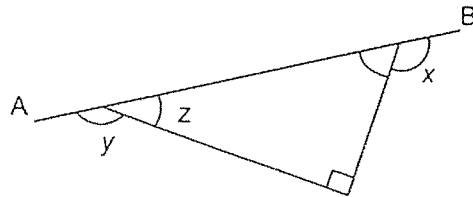
- 21 During a sale, cameras were sold at a 20% discount.



Ani bought a camera for \$480 during the sale. What is the usual price of the camera?

Ans: \$ \_\_\_\_\_

- 22 AB is a straight line. What is the sum of  $\angle x$  and  $\angle y$ ?



Ans: \_\_\_\_\_ °

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- 23 Sam has  $\$2y$ . Paul has twice as much as money as Sam. Jack has  $\$15$  more than Paul.

(a) Find the total amount of money that the three boys have in terms of  $y$ .

Ans: \$ \_\_\_\_\_

(b) The three boys have  $\$185$  altogether. Find the value of  $y$ .

Ans: \_\_\_\_\_

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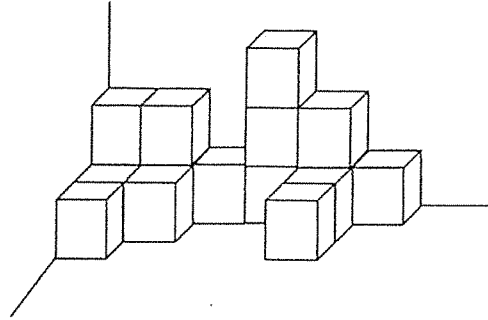
- 24 The average of three 3-digit numbers is 350. One of the numbers is 280. What is the largest possible difference between the other two numbers?

Ans: \_\_\_\_\_

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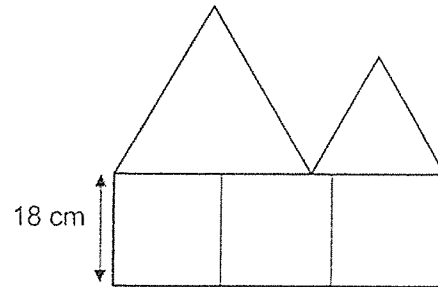
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- 25 What is the least number of cubes that must be added to make this solid to form a cuboid?



Ans: \_\_\_\_\_

- 26 The figure below is formed using 3 identical squares and 2 different equilateral triangles. The length of the square is 18 cm. Find the perimeter of the figure.



Ans: \_\_\_\_\_ cm

- 27 An archer shot 40 arrows.

She earned 1 point for every arrow that hit the target.  
She lost 1 point for every arrow that missed the target.

For her first 30 arrows, 22 hit the target.

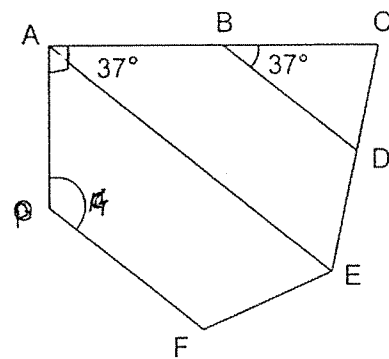
- (a) What was her score after her first 30 arrows?

Ans: \_\_\_\_\_

- (b) After shooting all 40 arrows, her final score was 20 points.  
How many of the last 10 arrows hit the target?

Ans: \_\_\_\_\_

- 28 AC is a straight line and is perpendicular AG. BD, AE and GF are parallel lines.  
Find  $\angle p$ .



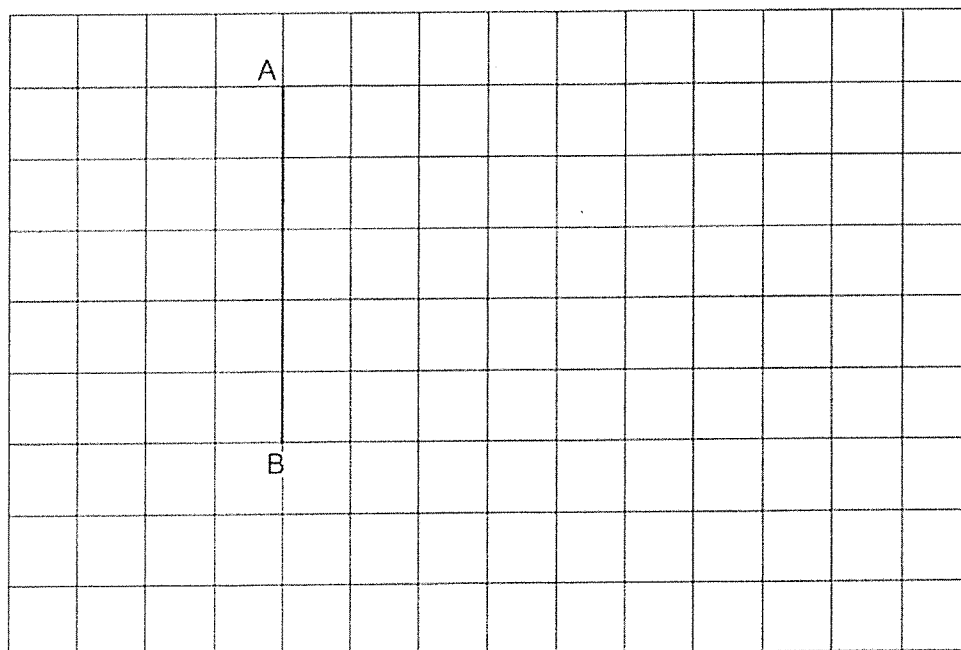
Ans: \_\_\_\_\_°

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29 The square grid shows line AB.

- (a) AB is a side of a right-angled triangle ABC with an area of 5 square units.  
Draw triangle ABC.
- (b) AB is also a side of a parallelogram ABDE. The perimeter of ABDE is twice  
that of triangle ABC.  
Draw parallelogram ABDE such that it does not overlap with triangle ABC.

Use a pencil to draw your diagrams and label them clearly.



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- 30 A triangular piece of paper XYZ is folded along the dotted line XP as shown in Figure 1. Figure 2 shows the paper after folding. The area of the figure after folding is  $\frac{5}{8}$  the area of triangle XYZ. The area of triangle XWP is  $84 \text{ cm}^2$ . Find the area of triangle XYZ.

Figure 1  
(Before folding)

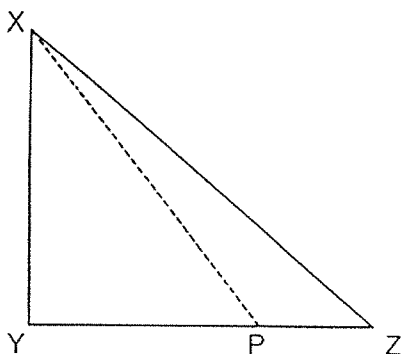
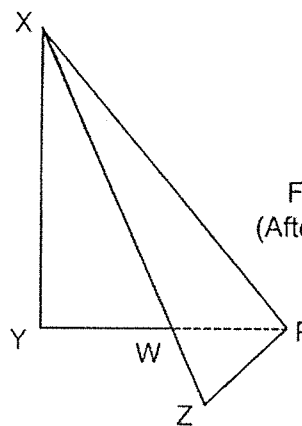


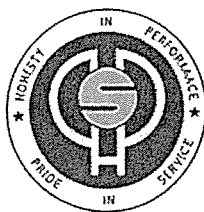
Figure 2  
(After folding)



Ans: \_\_\_\_\_  $\text{cm}^2$

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MATHEMATICS  
PRIMARY 6

PAPER 2

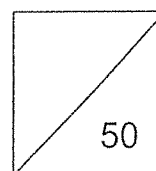
Parent's Signature

Name: \_\_\_\_\_

Class: Primary 6 \_\_\_\_\_

Date: 18 August 2026

Time: 1 hour 20 minutes



**INSTRUCTIONS TO STUDENTS**

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3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of an approved calculator is allowed.
6. Do not use correction fluid/tape.
7. Do not use highlighters on any part of your answers.

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

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- 1 The table shows the number of stickers that each pupil has collected.

|                              |   |    |    |
|------------------------------|---|----|----|
| Number of stickers collected | 6 | 10 | 14 |
| Number of pupils             | 5 | ?  | 7  |

$\frac{1}{4}$  of the pupils collected 10 stickers each. How many stickers were collected in total?

Ans: \_\_\_\_\_

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- 2 The average savings of 7 students is \$120. Another student joined the group and the average savings decreased by \$5. What was the amount of savings for the student who joined the group?

Ans: \$ \_\_\_\_\_

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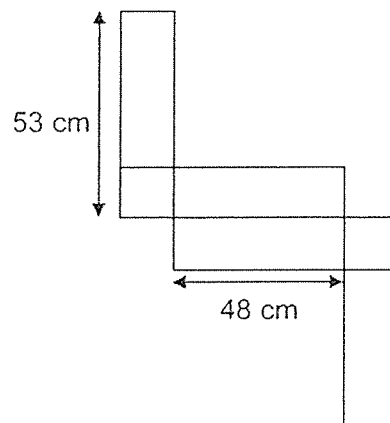
- 3 Sarah bought  $(2r + 8)$  kg of nuts. She kept 4 kg for herself and shared the rest equally among her 3 friends.
- (a) How many kilograms of nuts did each of her friends get? Express your answer in terms of  $r$ .

Ans: (a) \_\_\_\_\_ kg [1]

- (b) One of Sarah's friends, Macy, repacked the amount of nuts she got equally into 2 bags. Find the mass of each bag when  $r = 7$ .

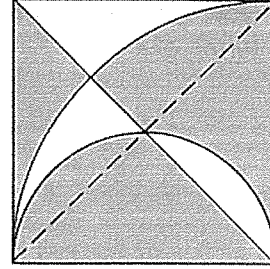
Ans: (b) \_\_\_\_\_ kg [1]

- 4 The figure shows the net of a cuboid which is made up of 4 rectangles and 2 squares. Find the volume of the cuboid.



Ans: \_\_\_\_\_  $\text{cm}^3$

- 5 The figure shows a square, a quarter circle and a semicircle. The area of the square is  $360 \text{ cm}^2$ . Find the area of the shaded part.



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Ans: \_\_\_\_\_  $\text{cm}^2$

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For questions 6 to 15, show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

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- 6 During a sale, Shop A sold  $\frac{2}{5}$  of its cookies, Shop B sold  $\frac{1}{2}$  of its cookies and Shop C sold  $\frac{1}{4}$  of its cookies. Each shop sold the same number of cookies.

(a) What fraction of all the cookies were sold?

Ans: (a) \_\_\_\_\_ [2]

- (b) There was a total of 935 cookies in the three shops at first.  
Find the total number of cookies left.

Ans: (b) \_\_\_\_\_ [1]

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- 7 Mr Ong packed stationery into Box A and Box B. The ratio of the number of pencils to erasers in Box A is 1 : 5. The ratio of the number of pencils to erasers in Box B is 5 : 3. There are 3 times as many items in Box A as in Box B.

(a) What is the ratio of the total number of pencils to the total number of erasers?

Ans: (a) \_\_\_\_\_ [2]

(b) There are 30 erasers in Box B. Find the total number of pencils and erasers in Box A.

Ans: (b) \_\_\_\_\_ [1]

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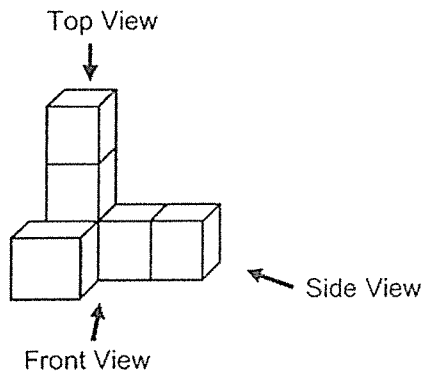
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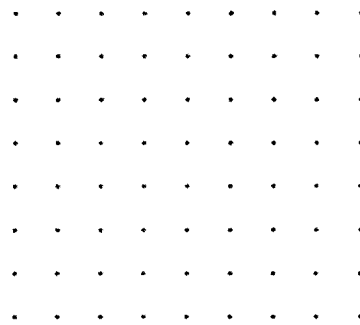
- 8 Tim built a solid using 7 cubes.

(a) Draw the front view of the solid.

[1]



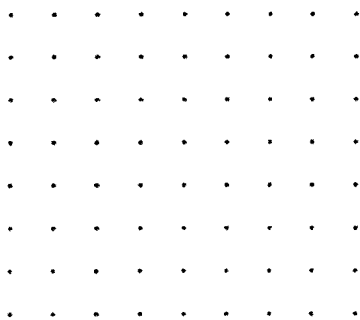
Front view



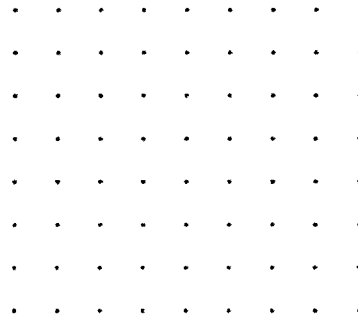
- (b) Tim added 2 more cubes to the solid such that the top view is as shown. Draw the side view of this solid.

[1]

Top view



Side view



- (c) The original solid with 7 cubes was glued together and painted blue. The total surface area of the unpainted faces is  $432 \text{ cm}^2$ . What is the volume of the original solid?

Ans: (c) \_\_\_\_\_  $\text{cm}^3$  [2]

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- 9 Melissa had some beads.  $\frac{5}{8}$  of the beads were wooden beads and the rest were glass beads. The mass of each wooden bead was 10 g and the mass of each glass bead was 15 g.

- (a) The total mass of all the beads was 1.33 kg. How many beads did Melissa have in total?

Ans: (a) \_\_\_\_\_ [3]

- (b) Melissa then bought more wooden beads. The number of wooden beads increased by 20%. What is the total mass of all the beads in the end? Give your answer in kilograms.

Ans: (b) \_\_\_\_\_ kg [1]

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- 10 There were 80 more boys than girls who participated in a sports camp last year. This year, the number of girls decreased by 50% while the number of boys increased by 40%. As a result, the camp has 188 participants this year.

(a) How many boys participated in the camp this year?

Ans: (a) \_\_\_\_\_ [3]

- (b) At the camp this year, each girl received 2 more activity cards than each boy. A total of 604 activity cards were given out. How many activity cards did each boy receive?

Ans: (b) \_\_\_\_\_ [2]

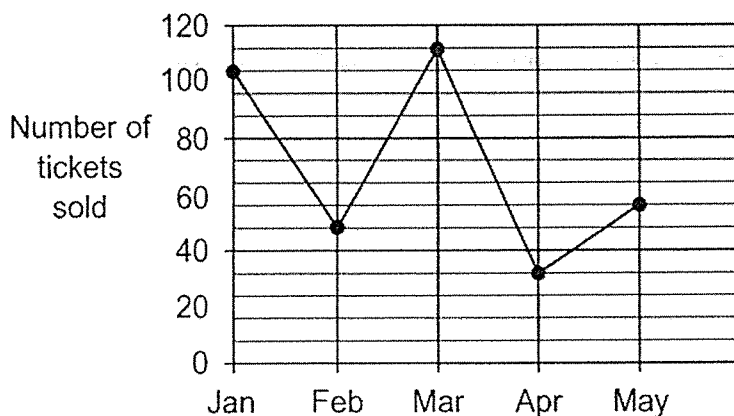
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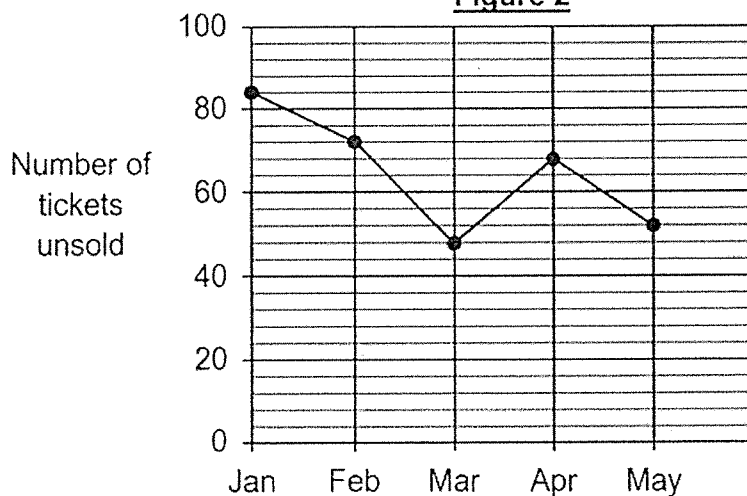
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- 11 Different numbers of tickets are available for sale for an exhibition every month. Figure 1 shows the number of tickets sold from January to May. Figure 2 shows the number of tickets left unsold at the end of each month.

**Figure 1**



**Figure 2**



- (a) What percentage of the tickets available for sale in February were sold?

Ans: (a) \_\_\_\_\_ % [2]

- (b) The average number of unsold tickets in June and July is 20 more than the average number of unsold tickets from March to May. Write down one possible set of values for the number of unsold tickets in June and July.

Ans: (b) \_\_\_\_\_, \_\_\_\_\_ [2]

- 12 At a supermarket, 12 points are earned for every \$2.50 spent. For every \$50 spent, there is an additional 80 bonus points given. Mrs Tan wants to earn 996 points to exchange for a gift. What is the least amount of money Mrs Tan needs to spend?

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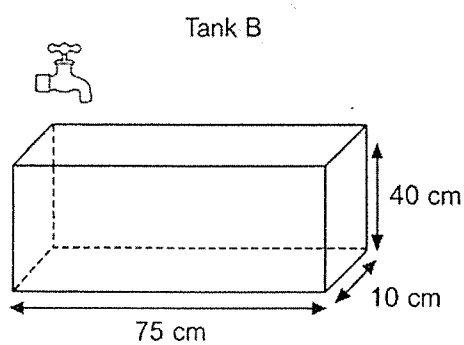
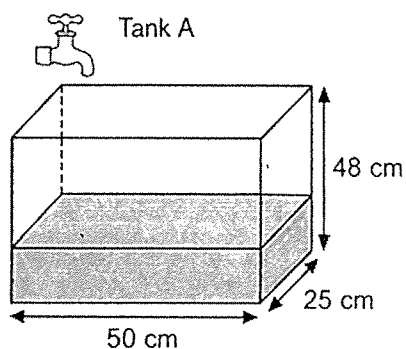
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Ans: \$ \_\_\_\_\_ [3]

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- 13 Two rectangular tanks A and B are shown.



At first  $\frac{1}{4}$  of tank A is filled with water and tank B was empty. Both taps were turned on at the same time and water flowed out from both taps at the same time at a rate of  $1.5 \ell / \text{min}$ .

- (a) What is the increase in the water level of each tank in one minute?

Ans: (a) Tank A: \_\_\_\_\_ cm

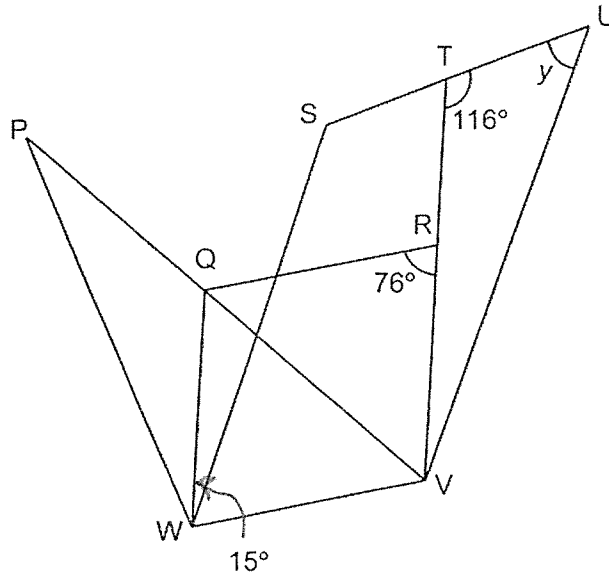
Tank B: \_\_\_\_\_ cm [1]

- (b) How long did it take for the height of the water to be the same in both tanks?

Ans: (b) \_\_\_\_\_ min [3]

(Go on to the next page)

- 14 QRVW is a rhombus. WS is parallel to VU and  $PQ = QW$ . PQV and TRV are straight lines.  $\angle QWS = 15^\circ$ ,  $\angle QRV = 76^\circ$  and  $\angle UTV = 116^\circ$ .



- (a) Find  $\angle x$ .

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

- (b) Find  $\angle y$ .

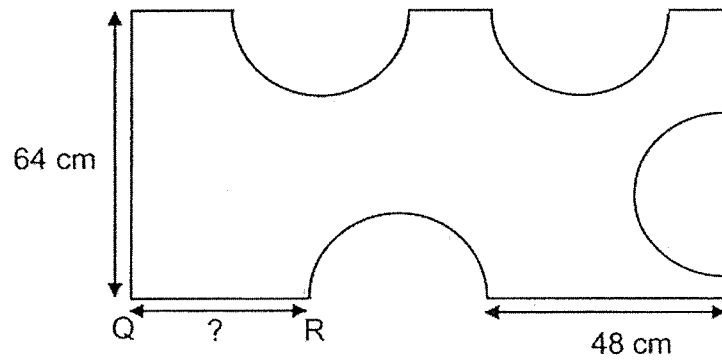
Ans: (b) \_\_\_\_\_  $^\circ$  [2]

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

Since WS is parallel to VU and SU ( is / is not ) parallel to WV,  
SUVW is a (parallelogram / trapezium).

[1]

- 15 Mdm Santhi had a rectangular piece of cloth. She cut out 4 identical semicircles of diameter 35 cm from the cloth. The perimeter of the remaining piece of cloth is 428 cm. (Take  $\pi = \frac{22}{7}$ )



- (a) What is the total area of all the semicircles that Mdm Santhi has cut out?

Ans: (a) \_\_\_\_\_ cm<sup>2</sup> [2]

- (b) What is the length of QR?

Ans: (b) \_\_\_\_\_ cm [3]

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End of Paper

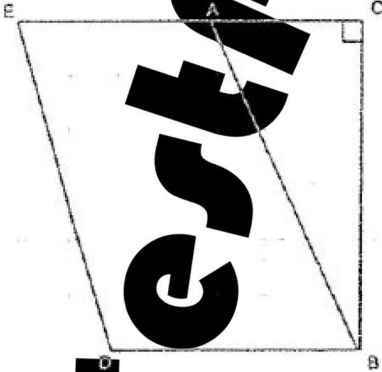
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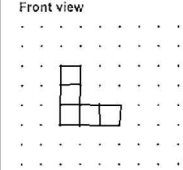
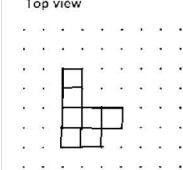
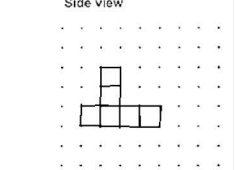
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Year : 2026  
Level : Primary 6  
School : Henry Park Primary School  
Subject : Maths  
Term : Preliminary Exam

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

|     |                                                                                    |     |                     |
|-----|------------------------------------------------------------------------------------|-----|---------------------|
| Q19 | (a)13.48<br>(b) $3\frac{1}{20}$                                                    | Q20 | (a)40<br>(b)0.875   |
| Q21 | \$600                                                                              | Q22 | 270°                |
| Q23 | (a)\$(10y+15)<br>(b)17                                                             | Q24 | 570                 |
| Q25 | 38 cubes                                                                           | Q26 | 198 cm              |
| Q27 | (a)14<br>(b)8                                                                      | Q28 | 233°                |
| Q29 |  | Q30 | 224 cm <sup>2</sup> |

|     |                                       |     |                                                                                                                                                                                                                                                                                                                                         |
|-----|---------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q1  | 168 stickers                          | Q2  | \$80                                                                                                                                                                                                                                                                                                                                    |
| Q3  | (a) $\frac{2r+4}{3}$ kg<br>(b) 3 kg   | Q4  | 1200 cm <sup>3</sup>                                                                                                                                                                                                                                                                                                                    |
| Q5  | 270 cm <sup>2</sup>                   | Q6  | (a) $\frac{6}{17}$<br>(b) 605                                                                                                                                                                                                                                                                                                           |
| Q7  | (a) 9:23<br>(b) 240                   | Q8  | (a), (b)<br><div><div>Front view</div><div>Top view</div><div>Side view</div></div> |
| Q9  | (a) 112<br>(b) 1.47 kg                | Q10 | (a) 168 boys<br>(b) 3 card                                                                                                                                                                                                                                                                                                              |
| Q11 | (a) 40%<br>(b) 77.75                  | Q12 | \$157.50                                                                                                                                                                                                                                                                                                                                |
| Q13 | (a) 2 cm<br>(b) 15 min                | Q14 | (a) 26°<br>(b) 49°<br>(c) Is not; trapezium                                                                                                                                                                                                                                                                                             |
| Q15 | (a) 1925 cm <sup>2</sup><br>(b) 27 cm |     |                                                                                                                                                                                                                                                                                                                                         |