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Please stick the barcode label in the box

Education Bureau

Territory-wide System Assessment 2024 [◇]

Primary 6

Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 39 questions in this test. Answer all questions.
3. Time allowed is 50 minutes.
4. Write your answers in this Question-Answer Booklet.
5. Do not write in the margins.
6. Use of calculators is not allowed.
7. Do your rough work on the rough work sheet provided.
8. Write your School Code, Class and Class Number in the boxes below.

Instructions for answering questions:

- (a) Multiple choice questions – Blacken the circle next to the correct answer with an **HB pencil**.

For example:

- A
- B
- C
- D

- (b) Questions in which you are asked to “Show your working” – Write your mathematical expressions, answers and statements/conclusions in the spaces provided. There is **NO** need to show your rough work.

- (c) Other types of questions – Answer as required in the spaces provided.

School Code
學校編號

P			
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Class
班別

6	
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Class No.
班號

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↑
此格只許填寫一個大楷英文字母
Write one **capital letter** in this box

◇ 2024 年小六全港性系統評估暫停舉行。此評估是學校以自願形式參與，而非全體小六學生參與的全港性系統評估。
The 2024 P6 TSA has been suspended. Participation in the 2024 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

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1. Which of the following numbers has the digit '5' in its hundred thousands place?

- A. 25 749 000
- B. 51 386 000
- C. 384 052 000
- D. 936 570 000

2. Which of the following numbers are prime numbers?
(Circle all the answers)

15

38

53

79

91

3. List all the factors of 63.

Answer: _____

4. List the first three common multiples of 10 and 15.

Answer: _____ , _____ , _____

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5. The Highest Common Factor (H.C.F.) of 16 and 28
is _____ .

6. (a) Convert $\frac{31}{8}$ to a mixed number.

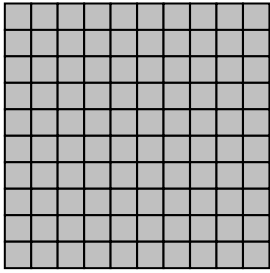
Answer:

(b) Fill in the box with the correct number.

$$\frac{12}{25} = \frac{\boxed{}}{75}$$

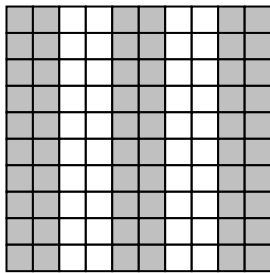
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7.



stands for 1.

Represent the shaded parts in the diagram below with a decimal.

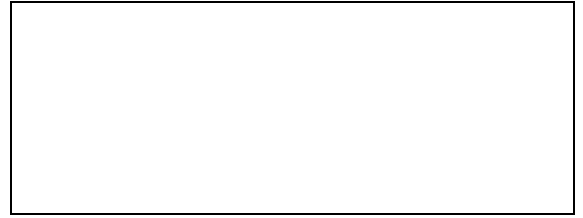


- A. 0.6
- B. $\frac{3}{5}$
- C. 60%
- D. 0.06

8. Convert $\frac{7}{9}$ to a decimal correct to two decimal places.

Answer: _____

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9. Arrange the following numbers from the largest to the smallest.

2.68 , 2.099 , 20.3

Answer: _____ , _____ , _____
(Largest) (Smallest)

10. (a) Convert 8% to a fraction in the lowest terms.

Answer:

- (b) Convert 1.3 to a percentage.

Answer: _____ %

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Please do not write in the margin.

11. $900 - 832 \div 4 =$

- A. 872
- B. 692
- C. 208
- D. 17

12. $3\frac{5}{9} + 2\frac{7}{9} - 1\frac{1}{9} =$

13. $2\frac{4}{5} \div 1\frac{1}{6} =$

14. $8.5 - (2.14 + 3.9) =$ _____

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15. $15 \div 0.6 =$ _____

16. Each pen costs $10\frac{1}{2}$ dollars. The price of a ruler is $\frac{1}{3}$ of that of a pen. Each ruler costs dollar(s).

17. Each can of soft drink costs $5\frac{3}{5}$ dollars. John has 40 dollars. He can buy can(s) of soft drink at most.

18. There are 50 customers in a restaurant. 22 of them are female customers. _____ % of all the customers are male.

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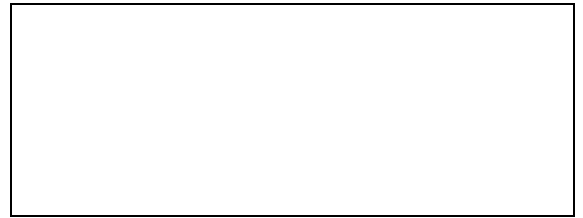
19. Mr Man paid 90 dollars for 3.6 kilograms of watermelon and 0.9 kilograms of grapes. How much does each kilogram of fruit cost on average?
(Show your working)



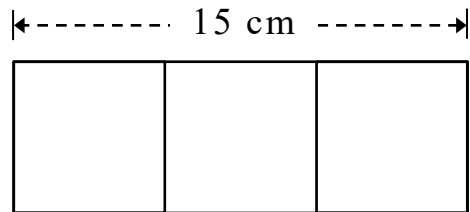
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20. Maggie practiced the piano for 70 minutes. The ending time was 5:50 p.m. In '24-hour time', the starting time was _____ : _____ .

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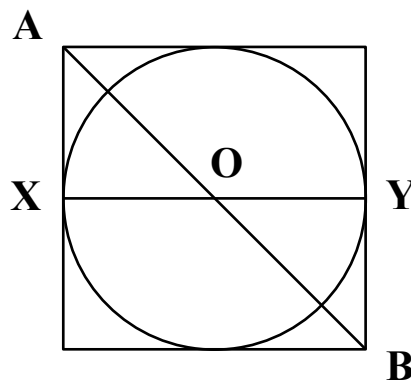
21.



The rectangle above is made up of 3 equal squares.

The perimeter of each square is _____ cm.

22. Benny draws the largest circle in the square (as shown in the diagram below). **O** is the centre of the circle.



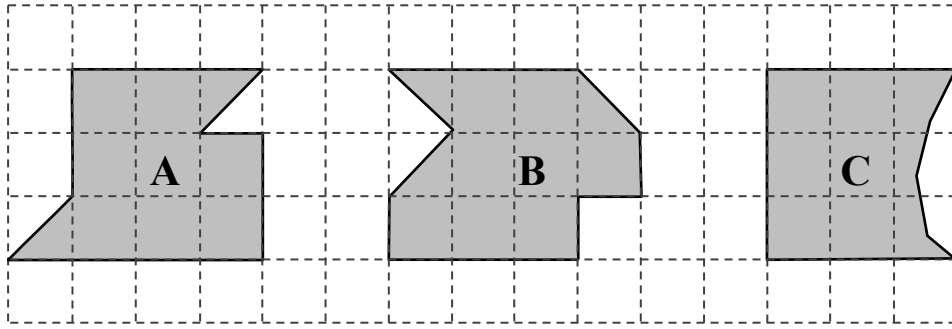
- (a) The line segment * **OX / XY / AB** is the diameter of the circle. (*Circle the answer)
- (b) The side of the square is 20 cm. The circumference of the circle is _____ cm. (Take π as 3.14)

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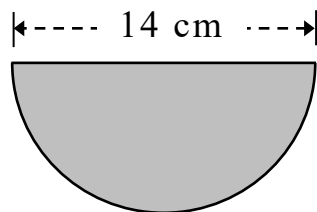
23.



Compare the areas of the 2-D shapes **A**, **B** and **C** above. Arrange them from the largest to the smallest. Write all the letters for the answers.

Answer: _____ , _____ , _____
 (Largest) (Smallest)

24.



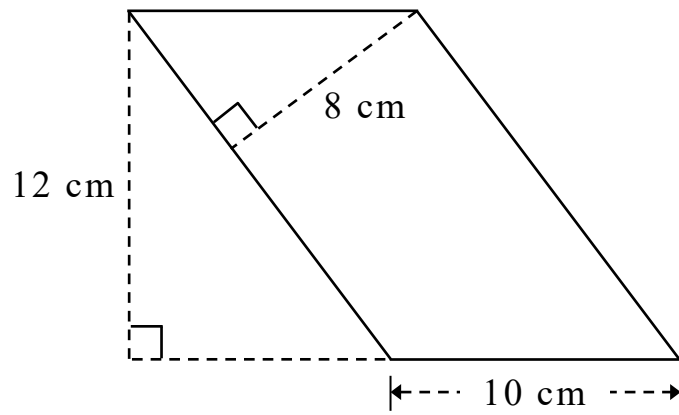
The figure above is a semi-circle.

Its area is _____ cm^2 .

(Take π as $\frac{22}{7}$)

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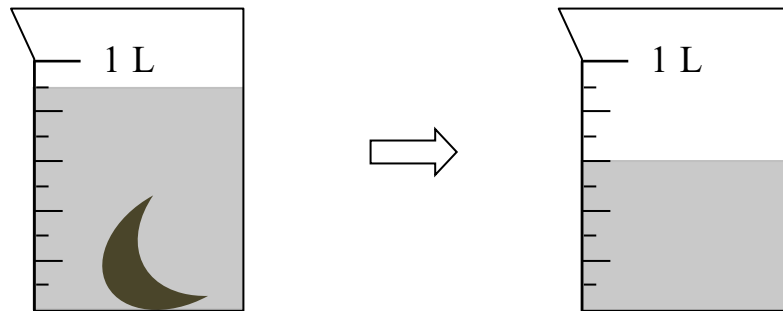
25.



What is the area of the parallelogram above?

- A. 60 cm^2
- B. 80 cm^2
- C. 96 cm^2
- D. 120 cm^2

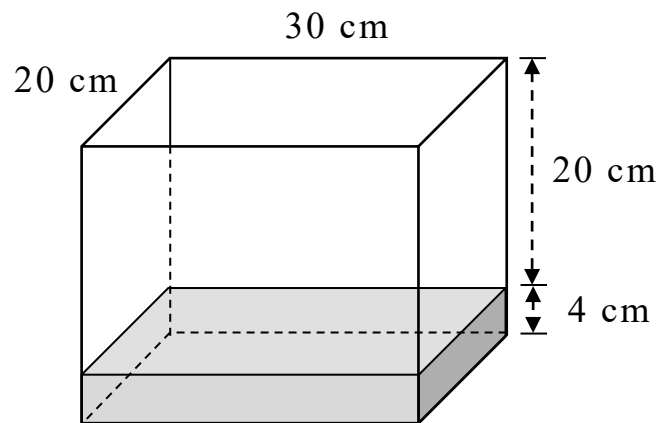
26.



The volume of  is _____ cm^3 .

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27.

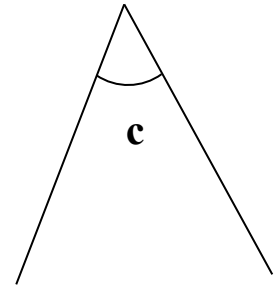
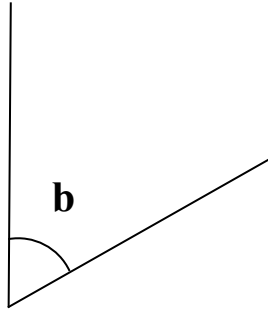
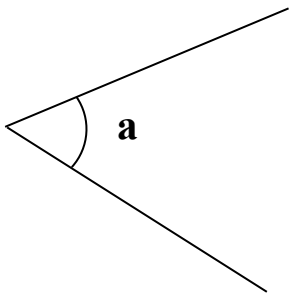


- (a) The diagram above is a cuboid fish tank. The water inside the tank is 4 cm deep. The volume of the water is _____ cm^3 .
- (b) Ken wants to fill up the fish tank with water. How many more *litre(s)* of water should be poured into the tank?
- A. 12
- B. 600
- C. 12 000
- D. 14 400

28. Paula walked from the door to the lift at an average speed of 1.2 m/s. It took her 5 s. The distance she walked was _____ m.

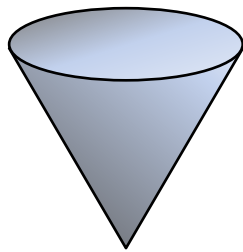
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29. Measure the following angles with a protractor. Arrange them from the smallest to the largest. Write all the letters for the answers.



Answer: \angle _____ , \angle _____ , \angle _____
(Smallest) (Largest)

30.



The figure above is a * circle / cylinder / cone .

(*Circle the answer)

It has _____ face(s).

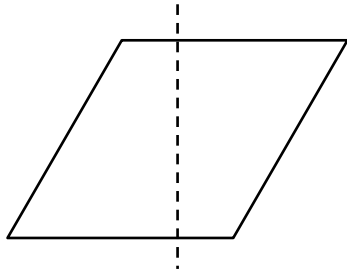
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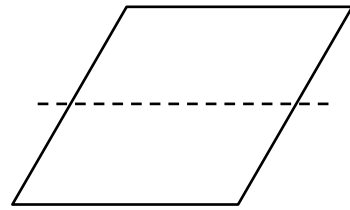
31. Which of the following 2-D shapes must have two pairs of opposite sides parallel and four right angles?

- A. Triangle
- B. Trapezium
- C. Rhombus
- D. Rectangle

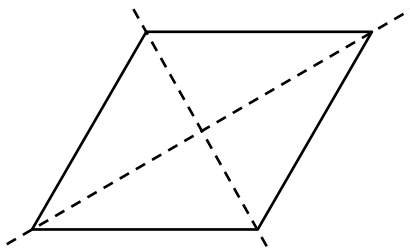
32. If the axis/ all the axes of symmetry of the shape is/ are marked with a dotted line/ dotted lines, which of the following diagrams is correct?



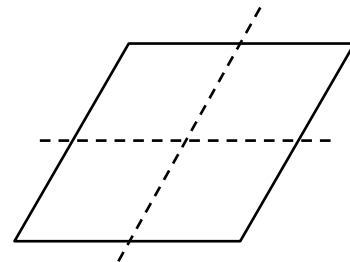
A.



B.



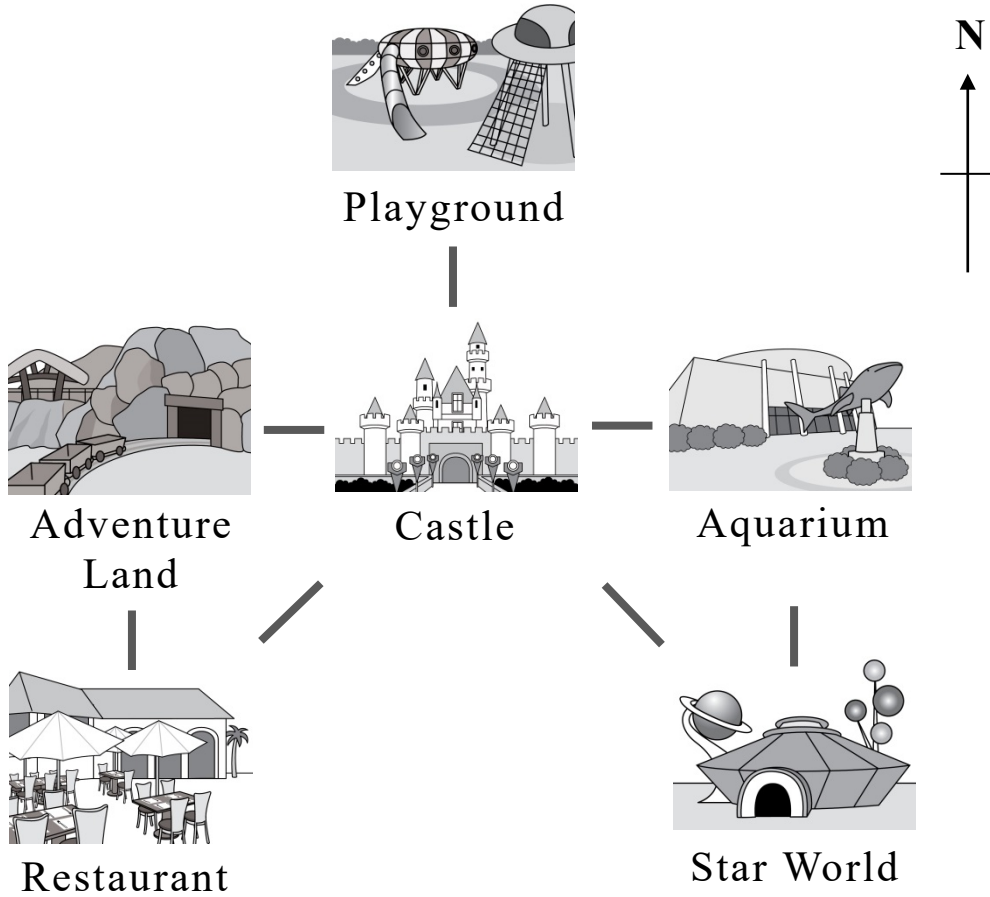
C.



D.

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33. The map of a theme park is shown below.



- (a) Adventure Land is to the _____ of Restaurant.
(direction)
- (b) Starting from _____, Sammy goes west to reach Castle. Then she turns _____ to reach Star World.
(direction)

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34. The table below shows the amount of Kelvin's pocket money in the past four days.

	Pocket Money (dollars)
Day 1	73
Day 2	85
Day 3	76
Day 4	70

On average, Kelvin has _____ dollar(s) of pocket money each day.

35. Each bag has y candies. Wilson bought 4 bags of candies and was given 6 more candies. How many candies did he have altogether?

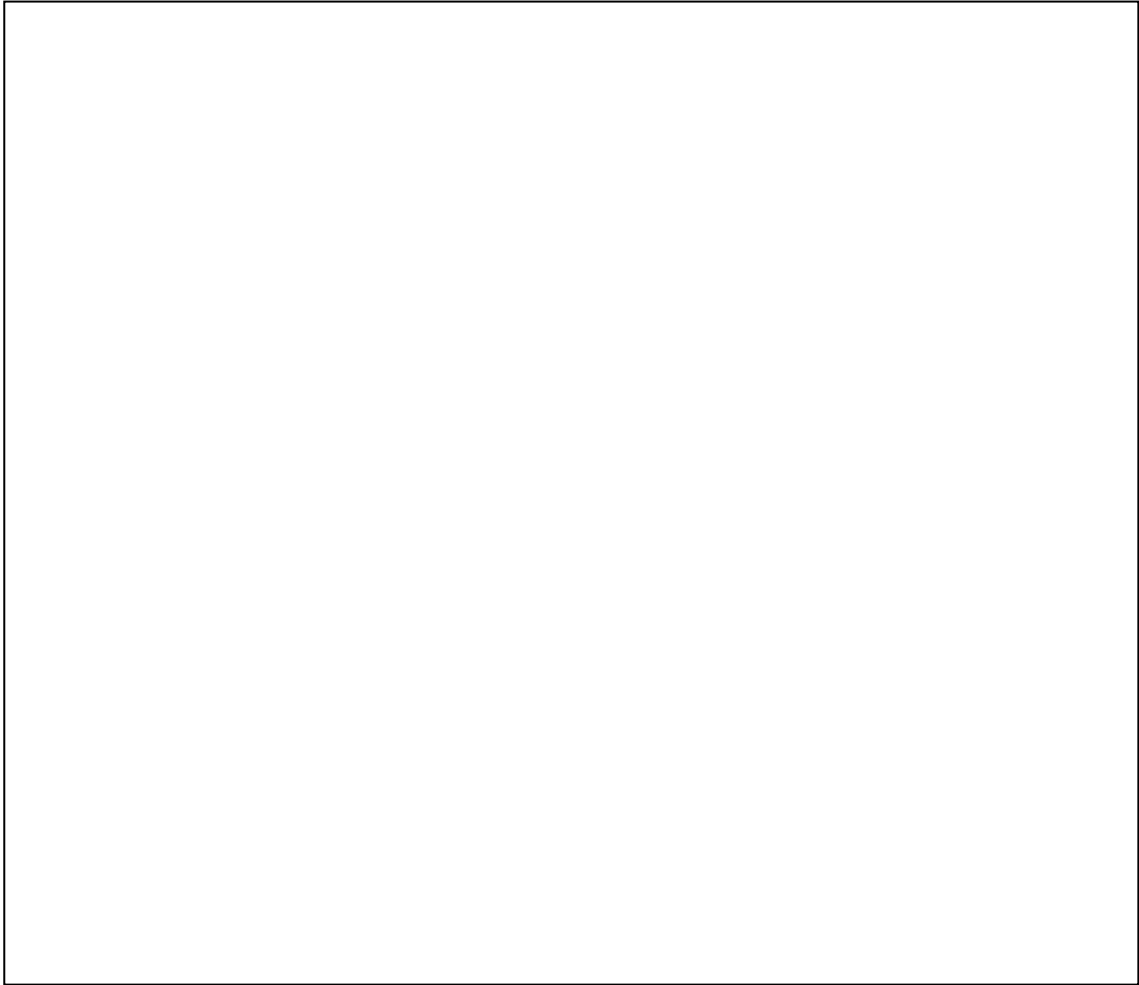
- A. $6y + 4$
- B. $(y + 4) \times 6$
- C. $4y + 6$
- D. $(y + 6) \times 4$

36. $3\frac{1}{5} = 8y$

$y =$

Please do not write in the margin.

37. Each exercise book costs \$5. Each folder costs \$28. Edwin bought some exercise books and one folder. He paid \$63 in total. By *the method of solving an equation*, find the number of exercise books Edwin bought.
(Show your working)



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Please do not write in the margin.

38. A game company conducted a survey of 240 customers to understand their favourite types of games and constructed the pie chart below.

Favourite Types of Games of Customers



- (a) The number of customers who favoured strategy games was the same as that of _____ games. The number of customers who favoured each type of game was _____ .
- (b) What fraction of the number of customers who favoured sport games was the number of customers who favoured puzzle games?

Answer: The number of customers who favoured puzzle games was of that of sport games.

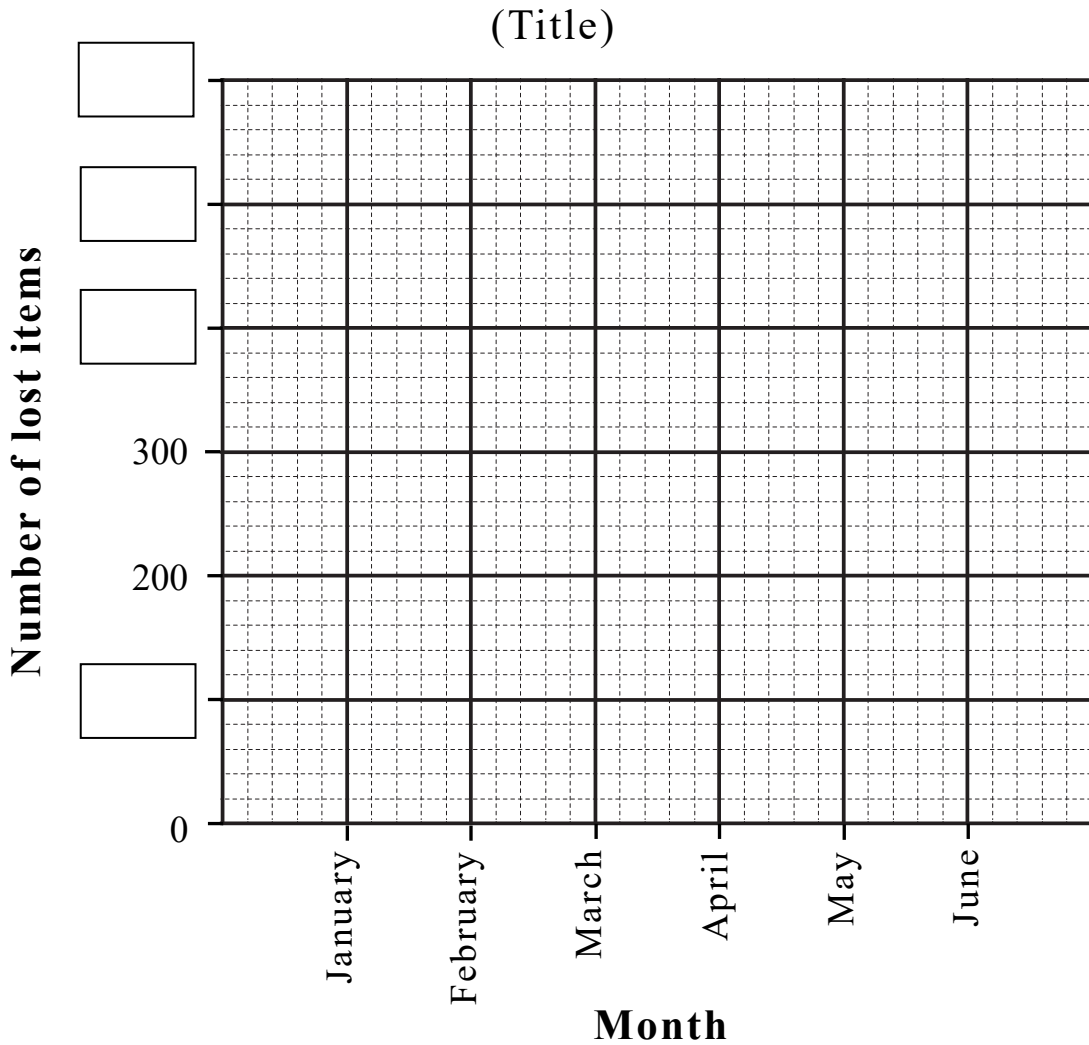
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39. The table below shows the number of lost items found by the bus company in the first half of the year.

Month	January	February	March	April	May	June
Number of lost items	200	160	300	420	340	400

According to the information above, use a pencil to complete the following broken line graph. Give it a title and add the scales.



— END OF PAPER —

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