* 6 M E 2 *

6	M	E	2

請把電腦條碼貼在方格內
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					**Class** 班別			**Class No.** 班號		
	P					**6**				

此格只許填寫一個大楷<u>英文</u>字母
Write one **<u>capital letter</u>** 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.

Please do not write in the margin.

Please do not write in the margin.

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)

3. List all the factors of 63.

   Answer: _____

4. Which of the following numbers is the Least Common Multiple (L.C.M.) of 12 and 30?

   ○ A. 6
   ○ B. 60
   ○ C. 120
   ○ D. 360

請把電腦條碼貼在方格內
Please stick the barcode label in the box

Please do not write in the margin.

Please do not write in the margin.

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

Answer: ☐

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

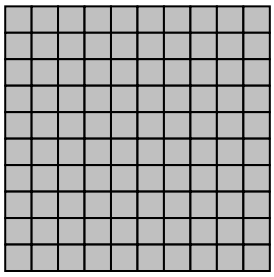
$$\frac{12}{25} = \frac{\square}{75}$$

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

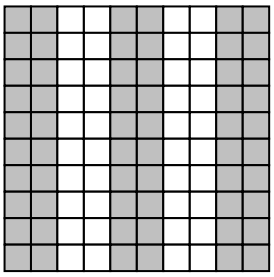
$$\frac{7}{9} \quad , \quad \frac{7}{3} \quad , \quad 2\frac{1}{4}$$

Answer: ☐ , ☐ , ☐

(Largest) (Smallest)

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 1.36 to a fraction in the lowest terms.

Answer: ☐

Please do not write in the margin.

Please do not write in the margin.

請把電腦條碼貼在方格內
Please stick the barcode label in the box

9. (a) Convert $\frac{11}{20}$ to a percentage.

Answer: _____ %

(b) Convert 90% to a decimal.

Answer: _____

10. When 370 is divided by 24, the quotient is _____ and the remainder is _____ .

11. $1\frac{1}{2} - \frac{3}{4} + \frac{2}{3} =$ ☐

12. $2\frac{4}{5} \div 1\frac{1}{6} =$ ☐

Please do not write in the margin.

Please do not write in the margin.

13. $1.2 - 0.4 \div 8 =$ _____

14. $1.9 \div 0.7 =$ _____
(Round the answer to two decimal places)

15.

$252 each

Mr Ko paid 294 dollars for a birthday cake and 6 egg tarts.

On average, each egg tart costs _____ dollar(s).

16. Each carton has 1.5 litres of milk. 4 cartons have _____ litre(s) of milk.

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

Please do not write in the margin.

Please do not write in the margin.

請把電腦條碼貼在方格內
Please stick the barcode label in the box

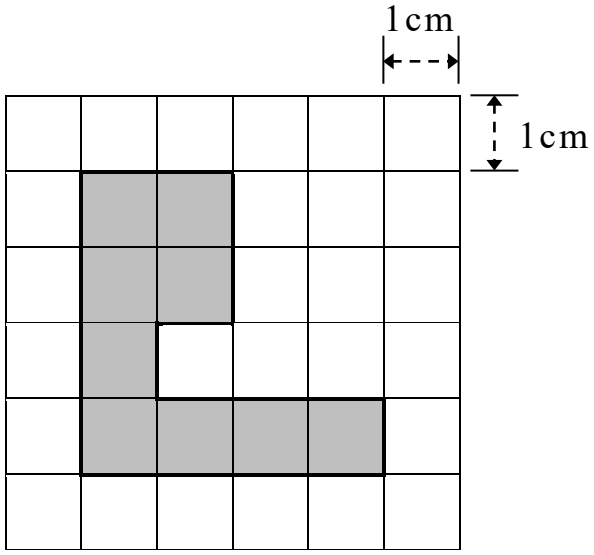
18. There are 320 pieces of fruit in a fruit store. $\frac{1}{5}$ of them are oranges and $\frac{1}{8}$ are pears. How many fewer pears are there than oranges?

(Show your working)

Please do not write in the margin.

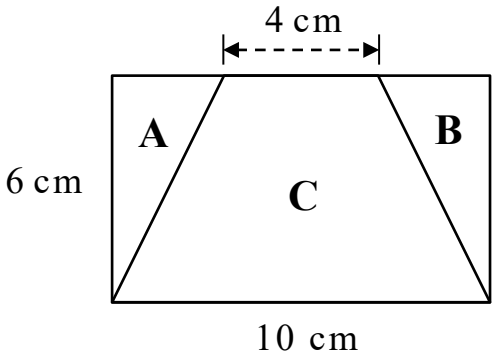
Please do not write in the margin.

19. In the following diagram, the side of each square is 1 cm.



The perimeter of the shaded part is _____ cm.

20.



The rectangle above is made up of triangles **A** and **B**, and trapezium **C**.

(a) The perimeter of the rectangle is _____ cm.

(b) The area of trapezium **C** is _____ cm^2.

Please do not write in the margin.

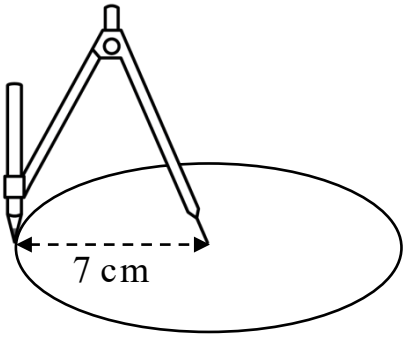
Please do not write in the margin.

請把電腦條碼貼在方格內
Please stick the barcode label in the box →

Please do not write in the margin.

Please do not write in the margin.

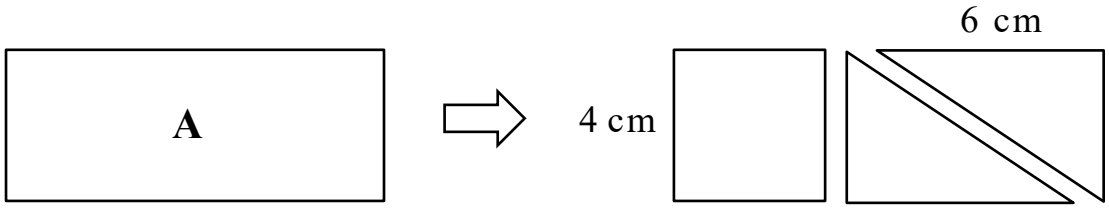
21.



Sunny draws a circle with a pair of compasses (as shown in the diagram above).

The circumference is _____ cm. (Take π as $\frac{22}{7}$)

22.



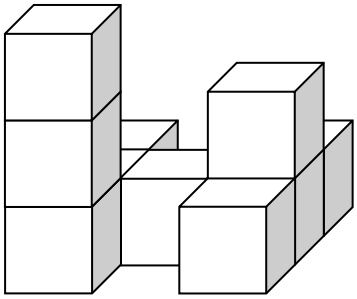
Rectangle **A** can be divided into one square and two equal triangles.

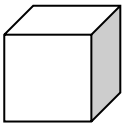
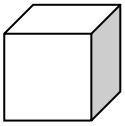
The area of rectangle **A** is _____ cm^2.

Please do not write in the margin.

Please do not write in the margin.

23.

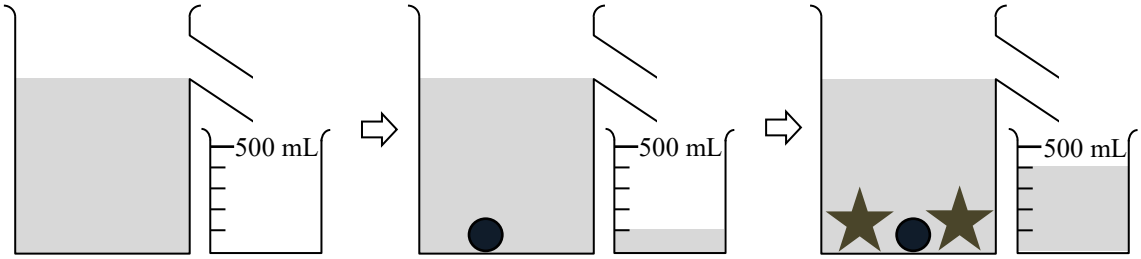


The solid above is made up of  . The volume of each  is 1 cm^3.

The volume of the solid is _____ .

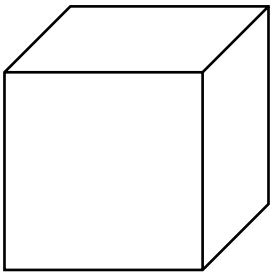
(Give the answer with a unit)

24.



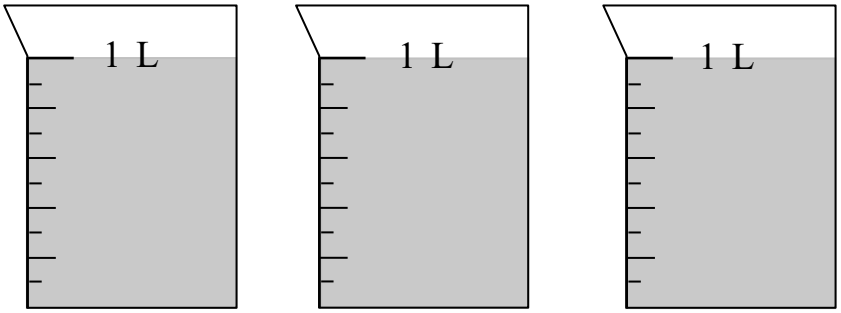
The volume of each ★ is _____ cm^3.

25.



The volume of the cube above is _____ cm^3.

26.



There are three measuring cups each holding 1 L of water.

What is the total volume of the water in cm^3?

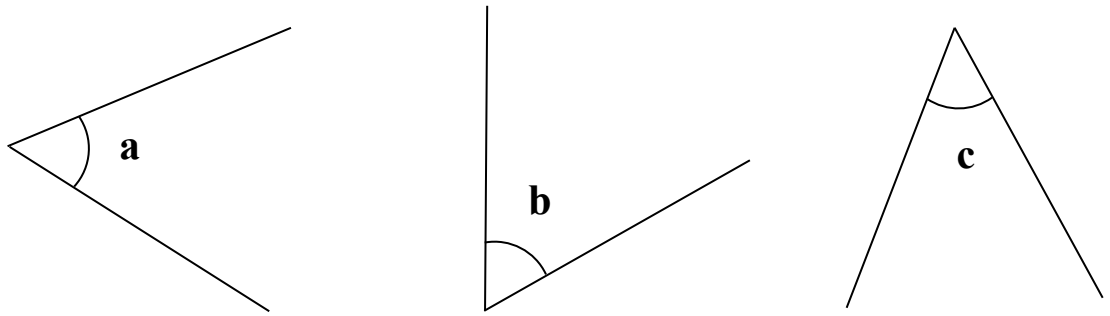
- ○ A. 3
- ○ B. 30
- ○ C. 300
- ○ D. 3 000

Please do not write in the margin.

Please do not write in the margin.

27. 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.

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



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

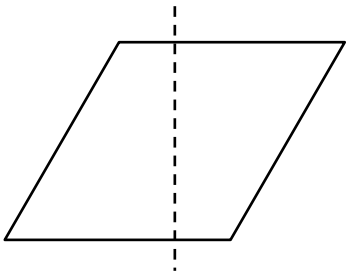
Please do not write in the margin.
Please do not write in the margin.

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

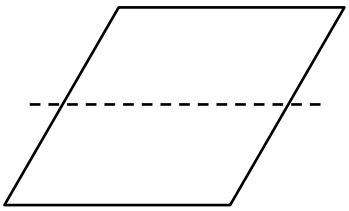
	Pocket Money (dollars)
Day 1	73
Day 2	85
Day 3	76
Day 4	70

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

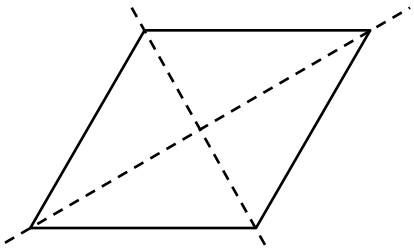
30. If the axis/ all the axes of symmetry of the shape is/ are marked with a dotted line/ dotted lines, which of the following diagrams is correct?



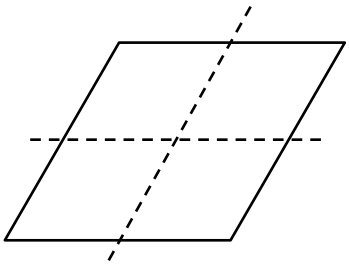
○ A.



○ B.



○ C.

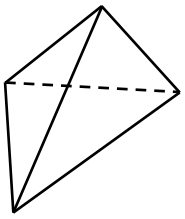


○ D.

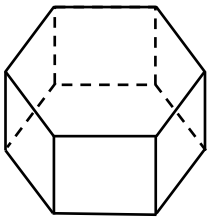
Please do not write in the margin.

Please do not write in the margin.

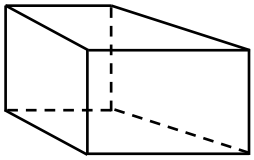
31. Which of the following 3-D shapes has 6 edges?



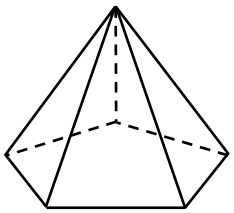
○ A.



○ B.

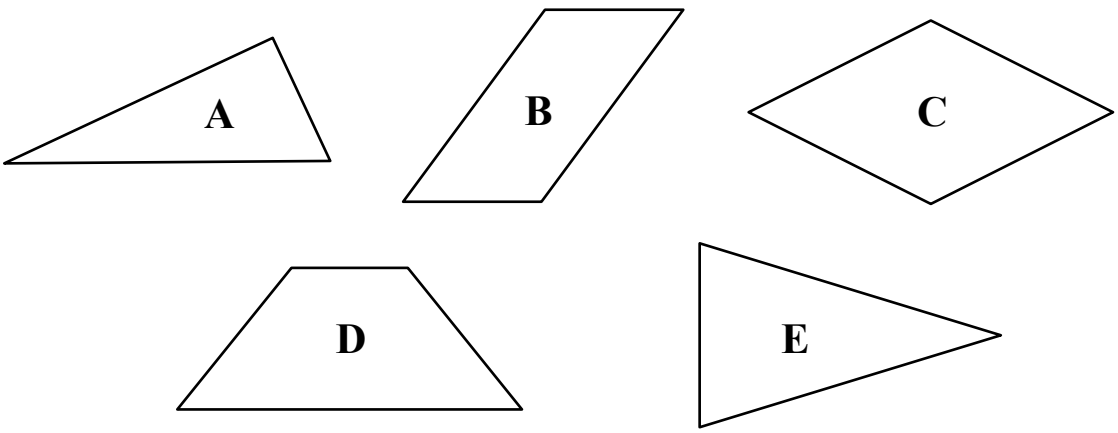


○ C.



○ D.

32. Study the 2-D shapes below. Write all the letters for the answers.



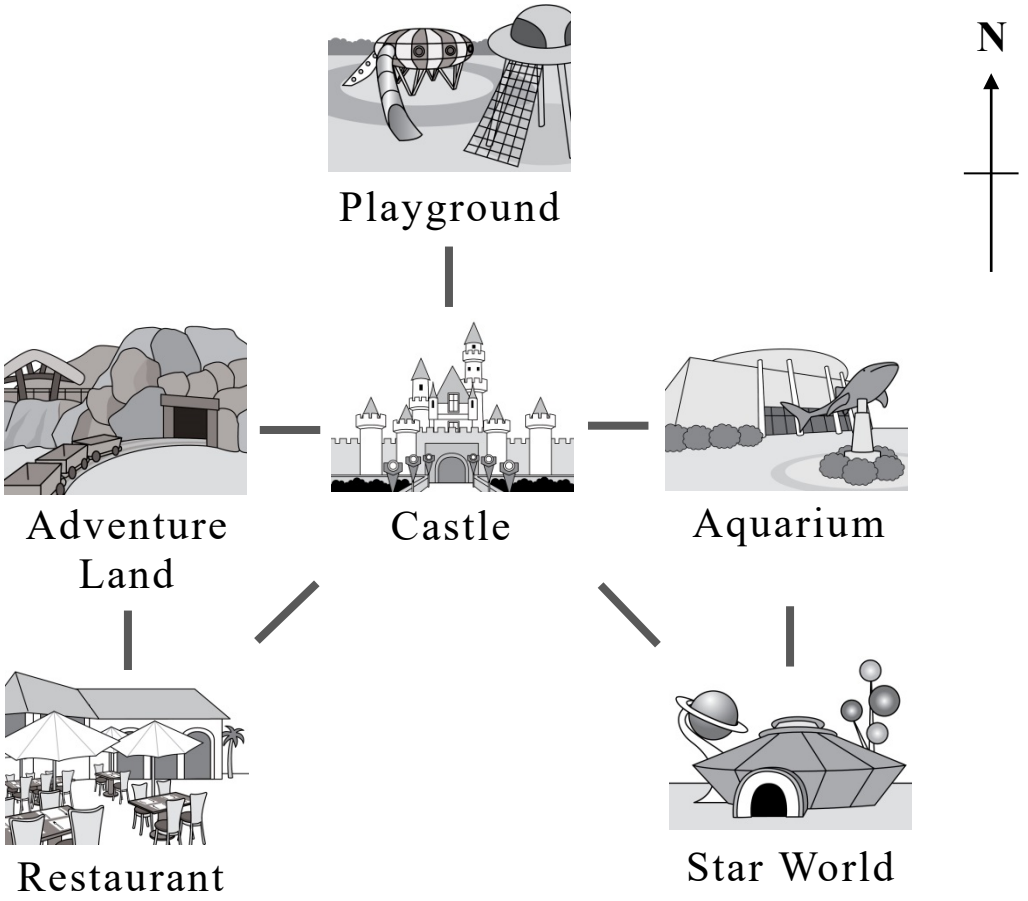
(a) Isosceles triangle: _____

(b) Rhombus: _____

Please do not write in the margin.

Please do not write in the margin.

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)

Please do not write in the margin.

Please do not write in the margin.

34. Johnson is k years old now. Danny's age is half of Johnson's age. What was Danny's age 5 years ago?

○ A. $2k + 5$

○ B. $\frac{k - 5}{2}$

○ C. $(k + 5) \times 2$

○ D. $\frac{k}{2} - 5$

35. Which of the following is an equation?

○ A. $(3 - w) \times 2$

○ B. $2w - 1 = 0$

○ C. $3w$

○ D. $2 = 3 - 1$

36. $\frac{k}{9} + 1 = 7$

$k =$ ☐

Please do not write in the margin.

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.

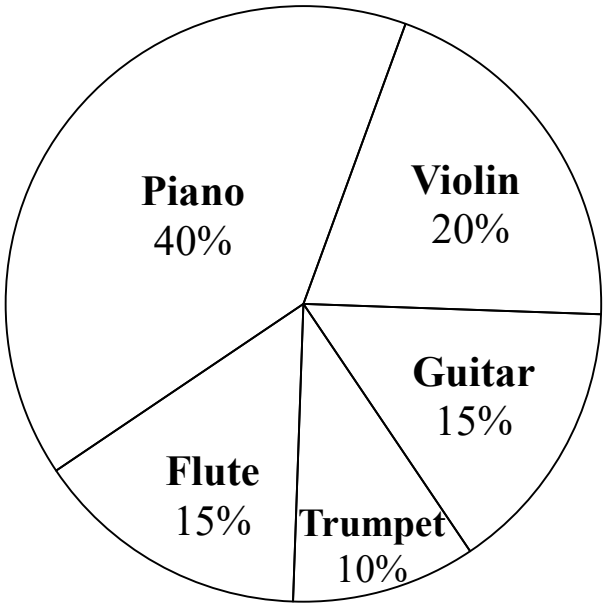
(Show your working)

Please do not write in the margin.

Please do not write in the margin.

38. There were 80 Primary Six pupils in Happy School. Miss Wong did a survey on their favourite musical instruments and constructed a pie chart.

Favourite Musical Instruments of Primary Six Pupils



(a) The most popular musical instrument was _____ . There were _____ pupils who liked it.

(b) The total number of pupils who favoured flute and violin was _____ % of the total number of Primary Six pupils.

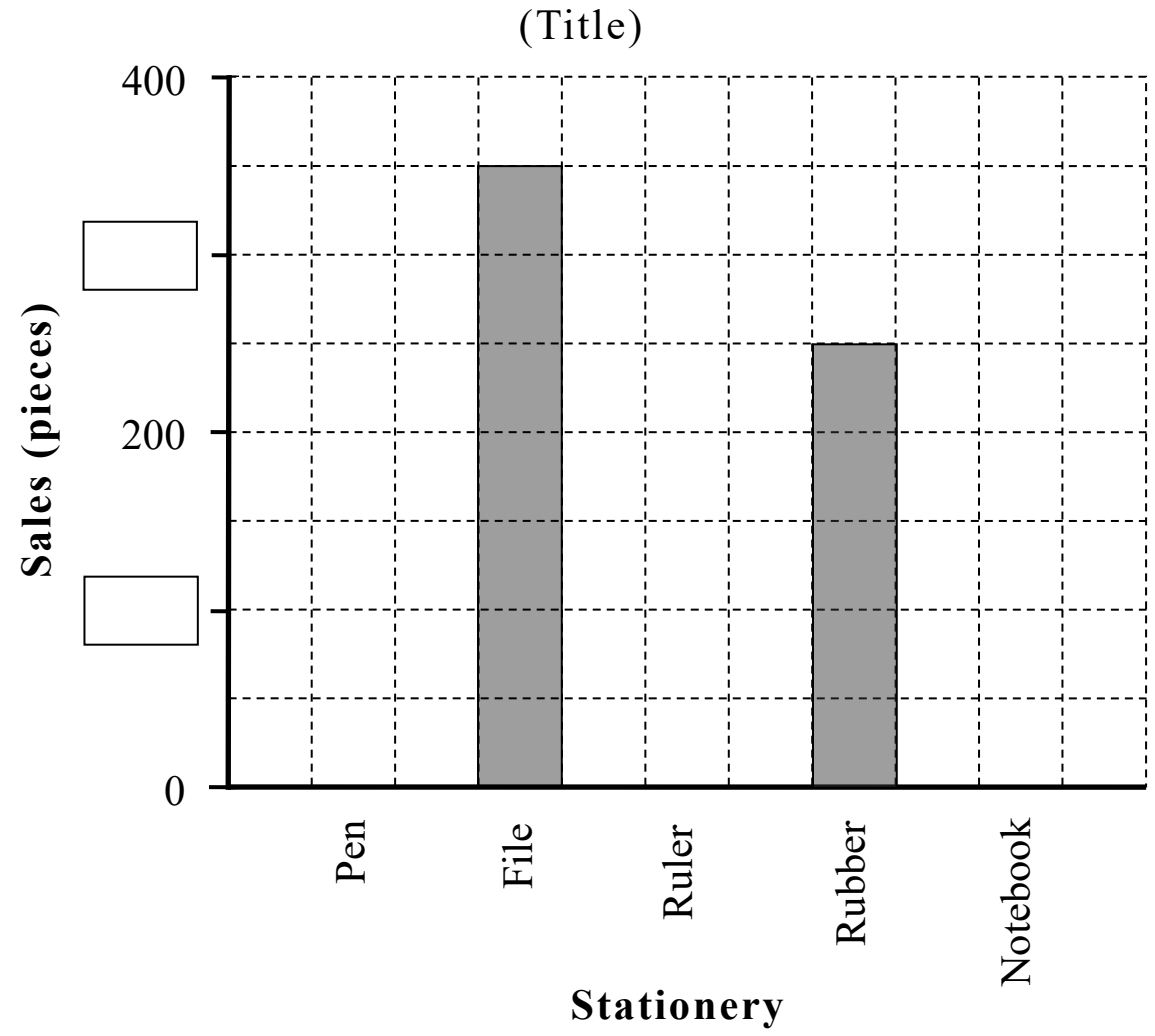
Please do not write in the margin.

Please do not write in the margin.

39. The table below shows the sales of different kinds of stationery at a stationery store in June.

Stationery	Pen	File	Ruler	Rubber	Notebook
Sales (pieces)	200	350	150	250	50

According to the information above, use a pencil to complete the following bar chart. Give it a title and add the scales.



— END OF PAPER —

Please do not write in the margin.

Please do not write in the margin.

©Education Bureau, HKSAR 2024
Prepared by the Hong Kong Examinations and Assessment Authority