* 6 M E 2 *

6	M	E	2

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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2025
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				**Class** 班別	6		**Class No.** 班號		

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

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1. Which of the following numbers has the digit ‘8’ in its ten millions place?

   ○ A. 94 381 005
   ○ B. 86 522 100
   ○ C. 537 908 040
   ○ D. 812 456 000

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

   6 **19** **25** **31**

3. Which of the following numbers is a factor of 18?

   ○ A. 4
   ○ B. 9
   ○ C. 36
   ○ D. 180

4. The Least Common Multiple (L.C.M.) of 14 and 35 is _____ .

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5. (a) Convert $3\frac{5}{6}$ to an improper fraction.

Answer: ☐

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

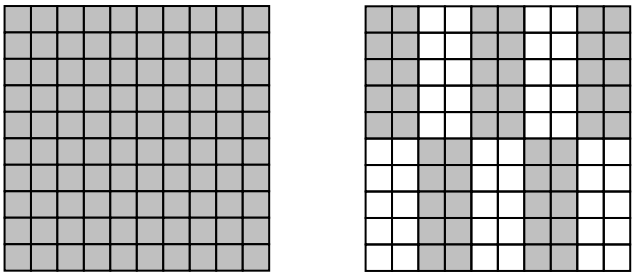
$$\frac{4}{7} = \frac{56}{\square}$$

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

$$2 \quad , \quad \frac{9}{4} \quad , \quad 1\frac{5}{6}$$

Answer: ☐ , ☐ , ☐

(Smallest) (Largest)

7. 

There are two large squares in the diagram above. Each large square stands for 1.

Use a decimal to represent the shaded parts in the diagram.

- ○ A. $1\frac{1}{2}$
- ○ B. 1.05
- ○ C. 1.5
- ○ D. 150

8. Convert $\frac{5}{7}$ to a decimal correct to two decimal places.

Answer: _____

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9. (a) Convert 140% to a fraction in the lowest terms.

Answer: ☐

(b) Convert 0.6 to a percentage.

Answer: _____ %

10. $21 \times 13 + 9 \times 13 =$ _____

11. $5 - (2\frac{1}{7} + \frac{3}{7}) =$ ☐

12. $9 \times \left(\frac{5}{6} - \frac{1}{2} \right) = \square$

13. $3 \div 0.4 =$ _____

14. $7 + 1.4 \div 0.5 =$ _____

15. A shopkeeper pours $3\frac{5}{8}$ L of orange juice into some glasses. The capacity of each glass is $\frac{1}{4}$ L. At most $\square$ glass(es) can be filled up.

16. Each bottle has 0.5 L of water. Mr Lee bought 6 bottles of water. After drinking 1.25 L, _____ L of water was/ were left.

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17. There are 12 male members and 18 female members in a choir. _____ % of all members are female.

18. There were 348 apples in a fruit shop originally. After selling 276 apples, the shopkeeper packed the remaining apples into 12 bags equally. How many apples are there in each bag?
(Show your working)

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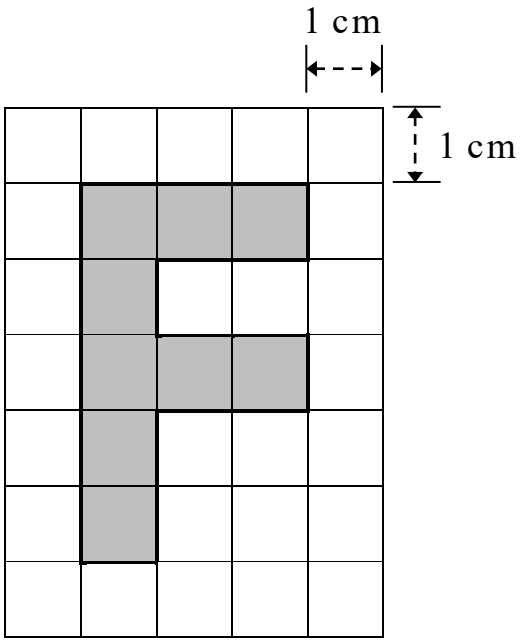
19. In the following diagram, the side of each square is 1 cm.



The perimeter of the shaded part is _____ cm.

20. The radius of a circular flower bed is 14 m.

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

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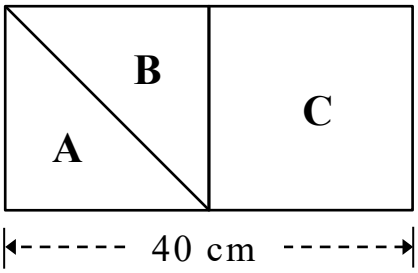
21.

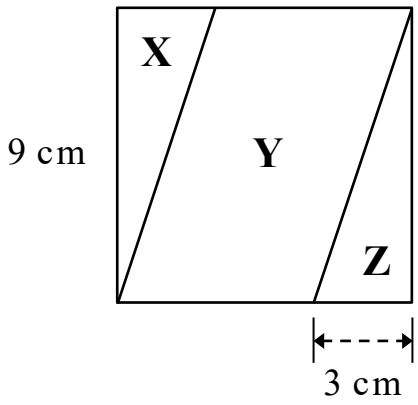


The rectangle above is made up of isosceles right-angled triangles **A** and **B**, and square **C**.

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

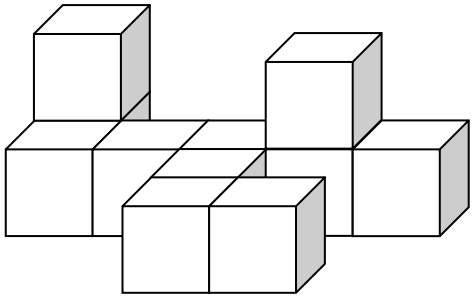
(b) The area of triangle **A** is _____ cm^2.

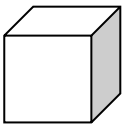
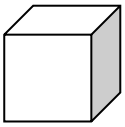
22.



The square above is made up of triangles **X** and **Z**, and parallelogram **Y**. The area of parallelogram **Y** is _____ cm^2.

23.

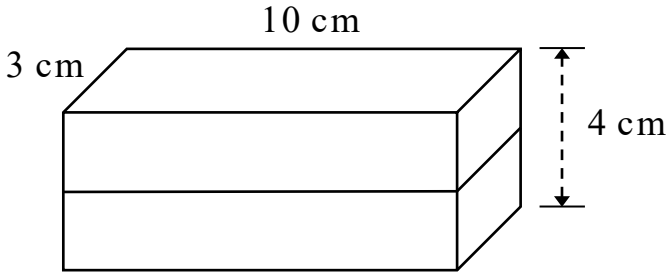


The solid above is made up of  . The volume of each  is 1 cm^3.

The volume of the solid is _____ .

(Give the answer with a unit)

24.



Henry fits 2 equal cuboid blocks together (as shown in the diagram above). The volume of each block is _____ cm^3.

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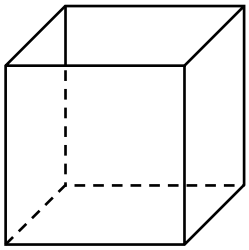
25.

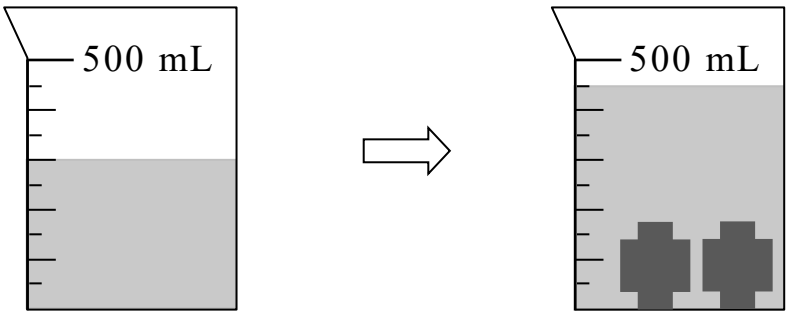


20 cm

What is the capacity of the cubic container above in mL?

- ○ A. 8
- ○ B. 80
- ○ C. 800
- ○ D. 8 000

26.



The volume of each is _____ cm^3.

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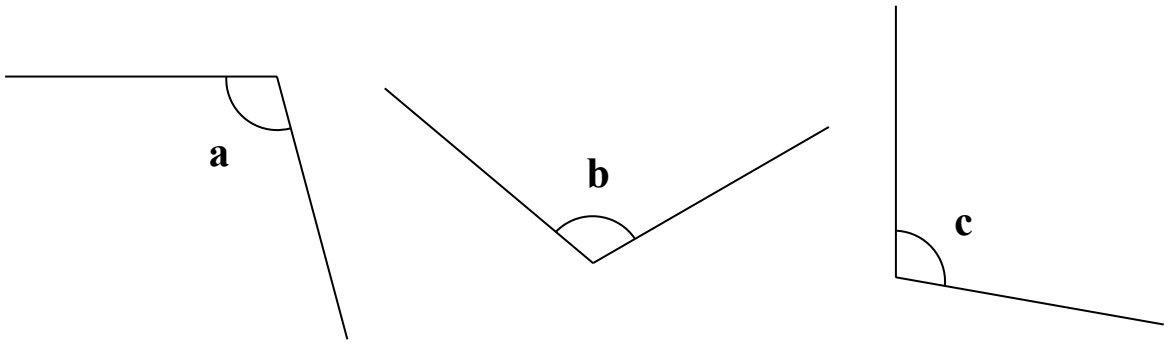
27. A cargo ship travels at an average speed of 30 kilometres per hour.

It travels 135 kilometres in _____ hour(s).

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



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

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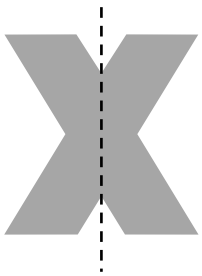
29. Percy got a total of 173 marks in the first and the second dictations. He got 97 marks in the third dictation.

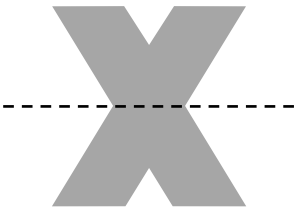
Percy's average mark in these three dictations is _____ .

30. Which of the following diagrams can indicate all the axes of symmetry of the shape with a dotted line/ dotted lines?

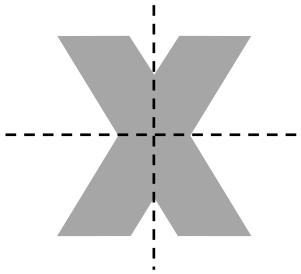


○ A.

○ B.



○ C.



○ D.

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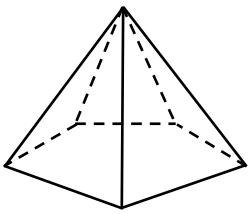
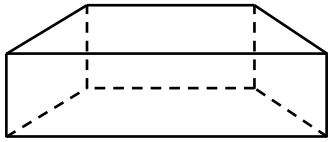
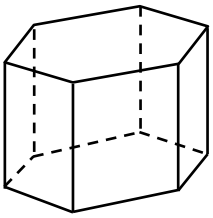
31. Which of the following 3-D shapes has 6 vertices?



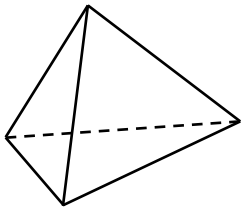
○ A.



○ B.

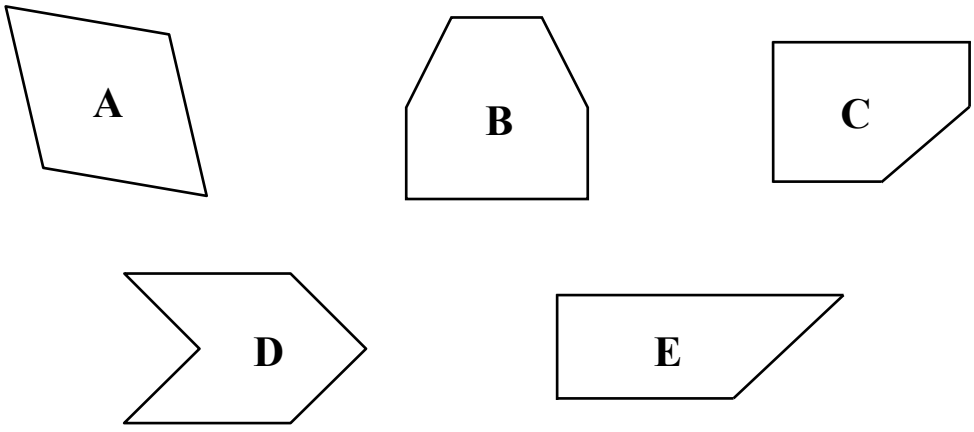


○ C.



○ D.

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



(a) Pentagon: _____

(b) Trapezium: _____

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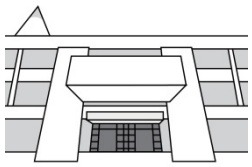
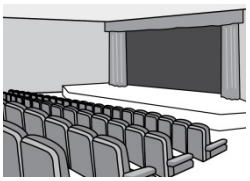
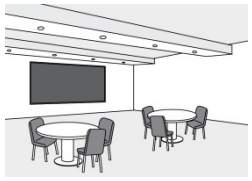
33. The map of a science museum is shown below.

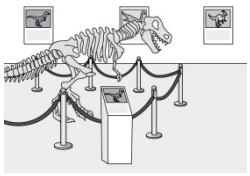
Laboratory

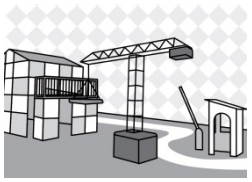

Main Entrance


Lecture Hall

N


Activity Room


Exhibition Hall


Children's Gallery

(a) Starting from Main Entrance, Ronald goes south to reach _____ . Then he turns _____ to reach Children's Gallery.
(direction)

(b) Laboratory is to the _____ of Exhibition Hall.
(direction)

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34. A basket contains K apples and some oranges. The number of oranges is 2 times the number of apples. After 4 oranges are taken away, how many oranges are left in the basket?

- ○ A. $2K - 4$
- ○ B. $(K - 4) \times 2$
- ○ C. $\frac{K}{2} - 4$
- ○ D. $\frac{K - 4}{2}$

35. Which of the following is an equation?

- ○ A. $(y + 5) \times 3$
- ○ B. $4 - 1 = 3$
- ○ C. $5 = \frac{y - 4}{2}$
- ○ D. $y + 10$

36. $\frac{b}{4} + 16 = 21$

$b =$ ☐

37. Lily bought 13 balloons and 1 toy car. She paid $38 in total. Each toy car costs $12. Find the price of each balloon by ***the method of solving an equation.*** (Show your working)

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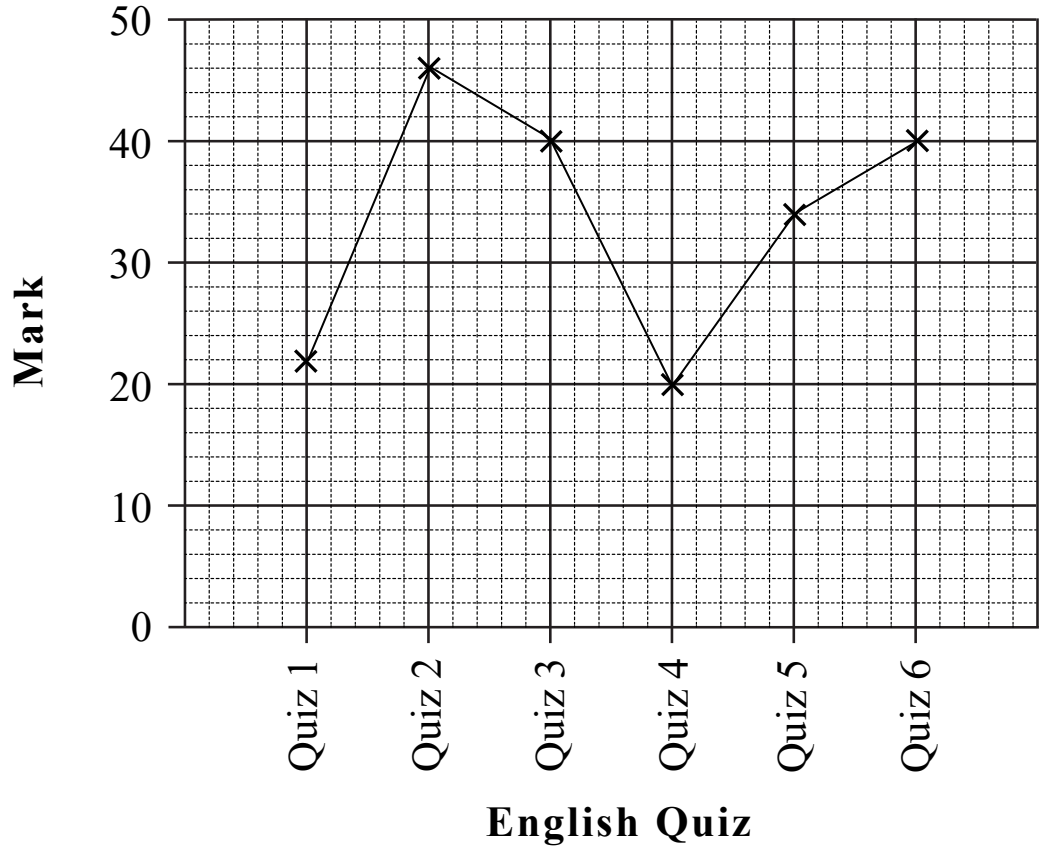
38. The following broken line graph shows the result of English quizzes of Vivian last school year.

Result of English Quizzes of Vivian Last School Year



(a) The mark of Vivian in English quiz _____ was the lowest. It was _____ marks.

(b) The mark of English quiz 2 was _____ marks * more / less than that of quiz 3. (*Circle the answer)

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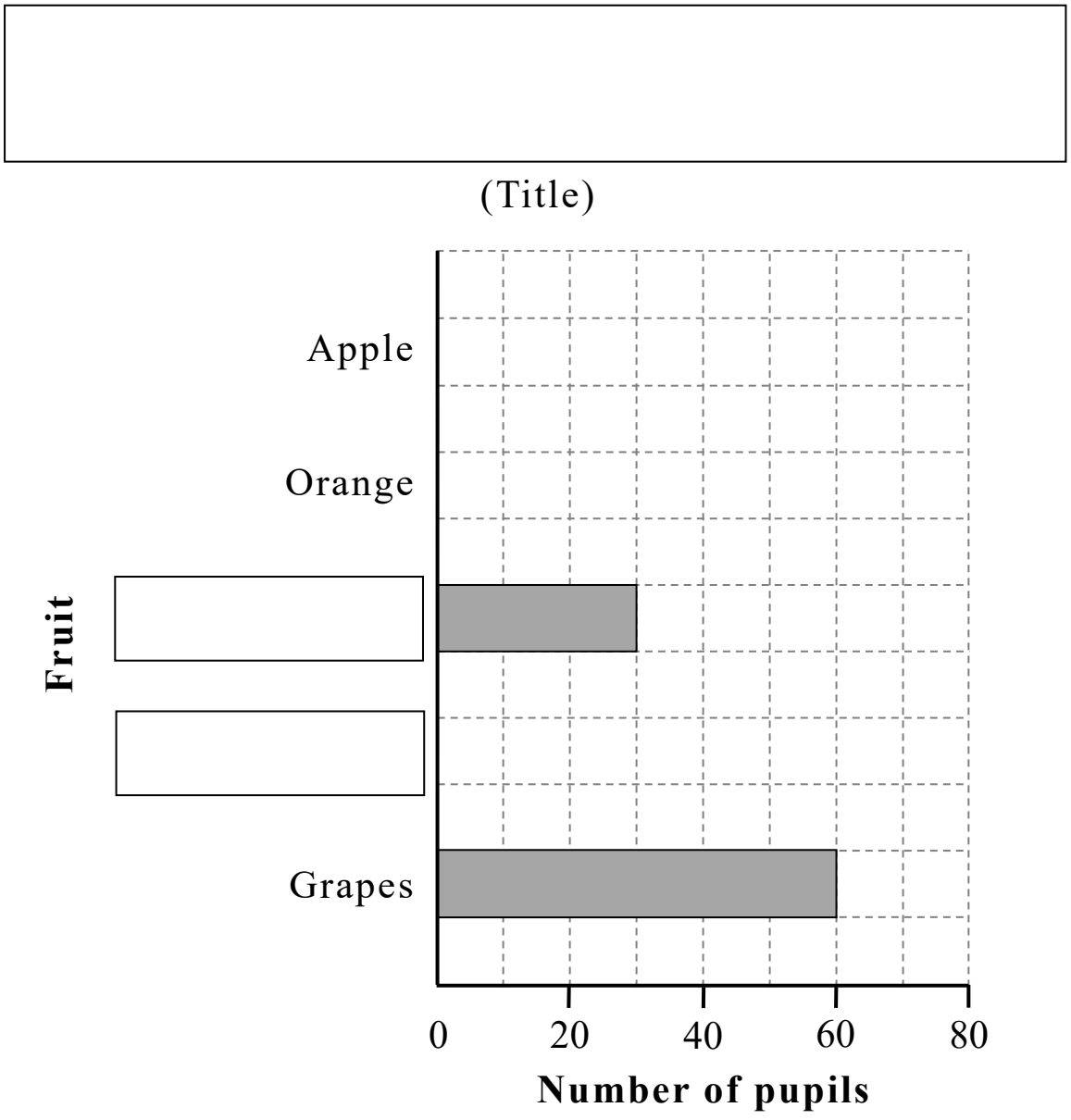
39. The table below shows the favourite fruits of Primary Six pupils.

Fruit	Apple	Orange	Pear	Banana	Grapes
Number of pupils	20	10	30	40	60

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



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