

# MATHEMATICS MOCK TEST

Class: IV | Set: 04

Time: 1 Hour 30 Minutes | Written Marks: 35 | Viva: 5 | Total: 40 Marks

NAME: \_\_\_\_\_

ROLL NO: \_\_\_\_\_

## SECTION A

(1 Mark Each)

1. Write the first common multiple of 4 and 6.
2. How many rays can be drawn starting from a given point  $O$ ?
3. Convert 5000 mL into Litres.
4. Complete the pattern: 1, 4, 7, 10, \_\_\_\_\_.
5. Express ₹8.25 in paise.

## SECTION B

(2 Marks Each)

6. Draw a factor tree for the number 18.
7. If the radius of a circle is 6 cm, find the length of its diameter.
8. Find the side of a square whose perimeter is 20 cm.
9. Convert 8500 grams into kilograms and grams.
10. Raman has 3 notes of ₹50 and 2 notes of ₹20. How much money does he have in total?

## SECTION C

(3 Marks Each)

11. **Factors and Multiples:** Find all the common factors of 16 and 24. Which is the largest common factor?
12. **Geometry:** Draw a rectangle  $ABCD$  where length  $AB = 6$  cm and breadth  $BC = 3$  cm. Measure and write the lengths of diagonals  $AC$  and  $BD$ .
13. **Measurement:** A shopkeeper sold 12 kg 500 g of sugar in the morning and 8 kg 750 g of sugar in the evening. How much sugar did he sell in total?
14. **Bar Graphs:** The following table shows the number of absent students in a class during a week:

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Absentees	2	5	0	3	4

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- (i) On which day were all students present? (ii) What is the total number of absentees for the week?

## SECTION D

(4 Marks Each - Case Study)

### Case Study 1: The New Playground

A rectangular playground is 25 meters long and 15 meters wide.

- (i) Find the area of the playground in square meters. (2 Marks)
- (ii) If a boy runs around the boundary of the playground 2 times, find the total distance covered by him. (2 Marks)

### Case Study 2: Tile Design Pattern

An artist is making a floor design using colored tiles in the following pattern:

Step 1: 4 tiles

Step 2: 8 tiles

Step 3: 12 tiles

- (i) How many tiles will be needed for Step 5? (2 Marks)
- (ii) If the artist has a total of 60 tiles, up to which step can he continue this pattern? (2 Marks)

## VIVA VOCE

(5 Marks)

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- **Factors:** Can a factor of a number be greater than the number itself?
  - **Geometry:** What is the relation between the radius and diameter of a circle?
  - **Measurement:** How many grams are there in three-quarters of a kilogram ( $\frac{3}{4}$  kg)?
  - **Money:** How many ₹5 coins do you need to make ₹100?
  - **Perimeter:** What is the perimeter of a regular pentagon with side 4 cm?