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# MATHEMATICS MOCK TEST

Class: IV | Set: 10

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

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

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

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## SECTION A

(1 Mark Each)

1. What is the smallest factor of the number 12?
2. How many endpoints does a line segment have?
3. Convert 5 Litres into millilitres (mL).
4. Complete the pattern: 1, 2, 4, 8, 16, \_\_\_\_\_.
5. How many ₹2 coins are needed to make ₹20?

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## SECTION B

(2 Marks Each)

6. Write all the prime numbers between 1 and 10.
7. Draw a line segment  $AB = 5$  cm using a ruler.
8. Find the perimeter of a square whose side is 6 cm.
9. Convert 3 kg 50 g into total grams.
10. Add: ₹45.50 and ₹25.25.

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## SECTION C

(3 Marks Each)

11. **Factors and Multiples:** Find the common factors of 15 and 20. Circle the largest common factor.
12. **Geometry:** Define and draw a small example for:  
(a) Right Angle (b) Acute Angle (c) Obtuse Angle
13. **Measurement:** A tailor had 10 m 50 cm of cloth. He used 4 m 25 cm to make a suit. How much cloth is left with him?
14. **Bar Graphs:** The table shows the favorite pets of 25 children:

Pet	Dog	Cat	Rabbit	Parrot
Children	10	7	5	3

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- (i) Which pet is liked the most? (ii) What is the total number of children who like either a Cat or a Rabbit?

## SECTION D

(4 Marks Each - Case Study)

### Case Study 1: The School Swimming Pool

A school has a rectangular swimming pool that is 12 meters long and 8 meters wide.

- (i) Find the area of the surface of the pool (Length  $\times$  Breadth). (2 Marks)  
(ii) If a child walks around the boundary of the pool once, what distance does he cover? (2 Marks)

### Case Study 2: Geometric Shape Pattern

Observe the number of sides in the following sequence of shapes:

Shape 1: Triangle (3 sides)

Shape 2: Quadrilateral (4 sides)

Shape 3: Pentagon (5 sides)

Shape 4: Hexagon (6 sides)

- (i) How many sides will Shape 7 have in this pattern? (2 Marks)  
(ii) What is the name of the shape that would have 8 sides? (2 Marks)

## VIVA VOCE

(5 Marks)

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- **Geometry:** What is the relationship between the radius and the diameter of a circle?
  - **Factors:** What is the difference between a factor and a multiple?
  - **Measurement:** Which unit would you use to measure the capacity of an eye-drop bottle? (L or mL?)
  - **Money:** How many 25-paise coins make ₹1?
  - **Patterns:** If the pattern is 2, 4, 6, 8 . . . , what is the rule?