FORMATIVE ASSESSMENT-IV (2024-25)

MATHEMATICS Model Paper

(English Medium)

35
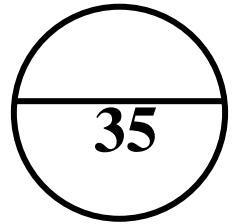
Class: VI   **Max. Marks: 35**   **Time: 60 Min.**

Name of the student: …………………………………   Roll No.: …………

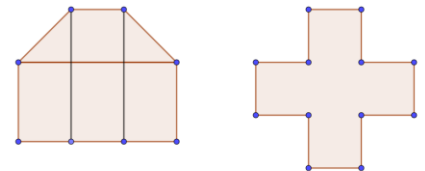**I.** **Solve the following problems.**   **2 x 10 = 20**

1. What is the formula for finding perimeter of a rectangle?
2. The amount of surface enclosed by a closed figure is called its_____.
3. In algebra, _____ is a number which does not have a fixed value.
4. Are the expressions (x+10) and 10x same?
5. What is the perimeter of a square with a side length of **6 cm**?
6. Find the value of **5x** when **x = 3**.
7. Convert the equation $x-7=10$ into an expression for x.
8. Simplify: **3(x + 2) + 4(x - 1)**.
9. A triangle has sides of **7 cm, 8 cm, and 9 cm**. Find its perimeter.
10. Write the algebraic expression for: "The sum of a number x and its square".

II. **Solve the following problems.**   **2 x 3 = 6**

11. Find the rule which gives the number of matchsticks.
    required to make a pattern of
    letter W. Use a variable to write the rule.
12 Find the areas of the following figures by counting
    number of squares.
13. A square has a perimeter of **48 cm**. Find its side length.

III.   **Solve the following problem.**   **1 x 4 = 4**

14. The cost of a pen is **₹x** and the cost of a notebook is **₹y**. Write an expression for:
    a) The total cost of **5 pens** and **3 notebooks**.
    b) The cost of **2 notebooks** more than the cost of **4 pens**.

IV. **Solve the following problem.**   **1 x 5 = 5**

15. Split the following shape into squares or rectangles and
    find its area. The measures are given in
    centimetres(cm).