

**SECOND TERM EVALUATION 2024-25**

**MATHS MODEL QUESTION PAPER 1**

**Standard: VII**

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Read the questions carefully.

Attempt any six activities.

All activities carry equal weightage.

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Choose the correct option:

1. The ratio 36:48 in the simplest form is:
    - (a) 3:4
    - (b) 4:5
    - (c) 9:12
    - (d) 6:8
  2. If  $2x + 3 = 11$ , the value of  $x$  is:
    - (a) 2
    - (b) 4
    - (c) 5
    - (d) 3
  3. The area of a triangle with base 12 cm and height 8 cm is:
    - (a)  $48 \text{ cm}^2$
    - (b)  $96 \text{ cm}^2$
    - (c)  $36 \text{ cm}^2$
    - (d)  $60 \text{ cm}^2$
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4. The value of  $3^4$  is:
    - (a) 12
    - (b) 81
    - (c) 27
    - (d) 64
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### Activity 2: Fill in the Blanks

1. The perimeter of a rectangle is  $2(l + b)$ . If  $l = 10$  cm and  $b = 5$  cm, the perimeter is \_\_\_\_\_.
  2. A number that divides another number exactly is called its \_\_\_\_\_.
  3. The HCF of 18 and 24 is \_\_\_\_\_.
  4. To make juice, the ratio of water to syrup is 3:1. For 12 liters of water, \_\_\_\_\_ liters of syrup are needed.
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### Activity 3: Solve the Following

1. Divide 84 into two parts in the ratio 5:7.
2. Simplify:
  - (a)  $8 \times (6 - 3)$
  - (b)  $20 \div 5 + 7$ .
3. The cost of 5 pencils is ₹25. What is the cost of 12 pencils?

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### Activity 4: Geometry

1. Find the area of a rectangle with:
    - (a) Length = 14 cm, Breadth = 8 cm.
    - (b) Length = 6 cm, Breadth = 3 cm.
  2. A square has a side of 7 cm. Find its perimeter and area.
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### Activity 5: Powers and Exponents

1. Write the following as powers:
  - (a)  $10 \times 10 \times 10$ .
  - (b)  $6 \times 6$ .
2. Simplify:
  - (a)  $5^3 \div 5^2$ .
  - (b)  $4^2 \times 4^3$ .

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### Activity 6: Word Problems

1. The sum of two numbers is 72. The ratio of the two numbers is 3:5. Find the numbers.
  2. A rope is 18 meters long. It is cut into three pieces in the ratio 2:3:4. Find the length of each piece.
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### Activity 7: Practical Application

1. In a class, 24 students are boys, and 16 are girls.
  - (a) Write the ratio of boys to girls.
  - (b) Write the ratio of boys to total students.
2. A car travels 240 km in 4 hours. What is its speed in km/h?

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