FORMATIVE ASSESSMENT – SECOND MID TERM

| MATHEMATICS | Max. Marks: 50 |

Std - VI   **Time: 2 Hrs**

Name of the School:	Name of the Student:
Place:	Roll No.:

I. Choose the correct answer: **5 x 1 = 5**

1. Which of the following is not the equivalent ratio for 5:7

   a) 10:14   b) 15:21   c) 20:28   d) 25:30

2. $\dfrac{12}{4} = \dfrac{x}{12}$. The value of x is _____.

   a) 6   b) 12   c) 36   d) 48

3. _____ triangles have 3 unequal sides and 3 unequal angles.

   a) Equilateral triangle b) Isosceles   c) Scalene   d) Right angle

4. The longest side of a Right triangle is called the _____.

   a) Adjacent   b) Opposite   c) Hypotenuse   d) vertex

5. 12 cartons of milk cost ₹144. Find the cost of 3 cartons.

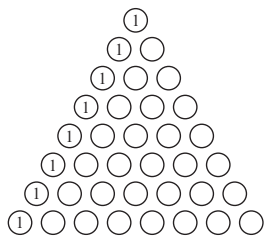   a) 36   b) 48   c) 60   d) 72

II. Match the following: **5 x 1 = 5**

1. CP - SP   -   50

2. SP - CP   -   4 : 3

3. 2000 : 3500   -   4 : 7

4. 2000 : 1500   -   Loss

5. 34 : 25 :: 68 : y -   Profit
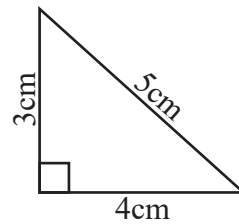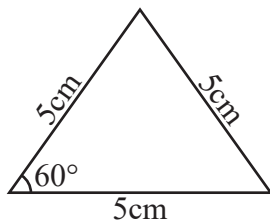
III. Do as Directed: **10 x 2 = 20**

1. Compare the ratios 3:1 and 5:6

2. Divide 450 kg of rice between two persons in the ratio 4:5

3. Write 4 equivalent ratios for each of the following ratios.

   a) 2:5   b) 11:13

4. Find the missing numbers.

   $12 : 14 :: x : 42$

5. In a test, Kavin wrote, the ratio of the right answers to the wrong answers that he got was 9:4. If he got 16 answers wrong, how many answers did he get right?

6. How triangles are classified based on their sides? Draw the diagrams.

7. Find the ratios in the lowest form.

   a) 15 cm to 3 m   b)150 rupees to 400 rupees

8. Fill the places in the pascal triangle.

9. Name the triangle classified by lengths of the sides.

   a) 4cm, 7cm, 4cm   b) 3.5cm, 3.5cm, 3.5cm c) 4cm, 5cm, 7cm

10. Classify the triangles by their angles.

IV. Answer the following: 4 x 5 = 20

1. Explain with diagrams how triangles are classified based on both angles and sides.

2. Find the CP.

   If 1) SP = ₹4200 and profit is ₹400

      2) SP = ₹15200 and profit is ₹1200

      3) SP = ₹325.50 and profit is ₹15.5

   Find the SP if,

      4) CP = ₹10000 and profit is ₹2000

      5) CP = ₹8000 and Loss is ₹1500

3. Two numbers are in the ratio 3:4. If the sum of numbers is 63, Find the numbers.

4. If 10 pieces of a chain can be tied together to form a chain of 16 meters long, then how many pieces are needed to make a chain that is 48 meters long.