Name: .... Class: VI   Time: 2 hours

Section: .... Roll Number: ....   Marks: 50

I.   **Choose the correct answer:**   (10 x 1 = 10)

1) The place value of 4 in the decimal number 32.745 is _____.

   a) 4   b) 0.4   c) 0.04   d) 0.004

2) The simplest form of the ratio 28 : 14 is _____.

   a) 1 : 2
   b) 2 : 1
   c) 1 : 4
   d) 4 : 1

3) The additive inverse of 18 is _____.

   a) $-\frac{1}{18}$ b) 0   c) $-$ 18   d) $\frac{1}{18}$

4) The decimal form of the fraction $5\frac{2}{1000}$ is _____.

   a) 5.2   b) 5.02   c) 5.002   d) 5.0002

5) Find the value of (−2) − (−4).

   a) −2   b) 6   c) 2   d) −6

6) Find: $\frac{1}{3}$ of 18

   a) 3   b) 6   c) 9   d) 12

7) Write in short form: 900 + 0 + 9 + $\frac{9}{10}$ + $\frac{9}{100}$

   a) 90999   b) 900.999   c) 9.999   d) 909.99

8) What is the coefficient of *y* in the algebraic expression *y* + 6?

    a) 1   b) 6   c) 7   d) 0

9) $\frac{3}{7}$ more than *y* is _____.

    a) $\frac{3}{7}y$ b) $\frac{3}{7} - y$ c) $y - \frac{3}{7}y$ d) $y + \frac{3}{7}$

10) If $\frac{x}{4}$ = 24, then *x* = _____ .

    a) 6   b) 48   c) 72   d) 96

II. Fill in the blanks.   (5 x 1 = 5)

1. The number name for 3004.92 is _____ .

2. A symbol that can take different values is called a _____.

3. The value of *x* in *x* : 9 : : 4 : 6 is _____.

4. 13 : 4 : : _____ : 28

5. The solution of the linear equation *x* + 3 = 7 is_____ .

III. Match the correct pairs from Column A and Column B, with respect to ratio.   (5 x 1 = 5)

Column A	Column B
1. 480 cm to 1 m	a) 7 : 300
2. 70 paise to ₹ 30	b) 25 : 15
3. 250 g to 1 kg	c) 24 : 5
4. 14 gallons to 48 gallons	d) 1 : 4
5. 5 : 3	e) 7 : 24

IV. Do as instructed.   (5 x 2 = 10)

1. Solve: $y + 24 = -12$

2. Represent the fraction $\frac{2}{5}$ on the number line.

3. Evaluate: $-9 - |-3|$

4. Arrange the fractions $\frac{1}{5}$, $\frac{2}{3}$, $\frac{3}{7}$ and $\frac{1}{7}$ in ascending order.

5. Add the mixed fractions: $2\frac{1}{3}$ + $7\frac{2}{5}$

V.   Answer the following: **(5 x 4 = 20)**

1. The day temperature in a desert rose by 5° C between 5 a.m. and 6 a.m. and then rose by another 6° C between 6 a.m. and 9 a.m. The temperature at 9 a.m. was 2° C. What was the initial temperature at 5 a.m.?

2. The thickness of a large brick is 3.5 cm and the thickness of a small brick is 1.987 cm less than the large brick. What is the combined thickness of the 2 bricks?

3. Sahil had *y* chocolates. He ate 5 of them. Then he distributed the remaining chocolates into his 4 friends. How many chocolates did each friend receive?

4. There are 80 red and blue marbles in a packet. The number of red marbles is 8 more than the number of blue marbles. Find the number of blue marbles and red marbles.

5. A pipe can fill 600 L of water in a tank in 3 minutes. How much water can it fill in 1 hour?