MATHEMATICS

CLASS – VIII

Chapter-2

Linear Equations(B)

ZERO PERIOD
We Believe in Learning

1. Solve : $8p - 11 - 5p + 3 = 2p + 4 - 3p$

2. Solve: $7 + 2(x + 1) - 3x = 5x$

3. Solve the following equations:

(a) $4x + \frac{x}{5} = 21$

(b) $\frac{2y}{3} + \frac{3y}{4} = 17$

4. Find three consecutive odd numbers whose sum is 45.

5. The ages of Raja and Reeta are in the ratio 5:7. Four years later, their ages will be in the ratio 3:4, find their present ages.

6. Solve the following equations: (a) $\frac{k-2}{k-4} = \frac{k+4}{k-2}$ (b) $\frac{x-3}{x+4} = \frac{x+1}{x-2}$

7. One number is 5 times another. If 18 is subtracted from the greater, the remainder will be three times the smaller. Find both the numbers.

8. Raju has a square garden, he wishes to change its shape and increase the width 1 m. and the length 3 m. the area of new garden is 19 square m. more than the square garden, what is the length of a side now?

9. A steamer goes downstream in a river and covers the distance between two towns in 20 hours. Coming back upstream, it covers this distance in 25 hours. If the speed of water is 4 Km/hour, find the distance between two towns.

10. Sum of the digits of a two-digit number is 9. The number obtained by interchanging the digits exceeds the given number by 27. Find the given number.

11. The denominator of a rational number is greater than its numerator by 8. If the numerator is increased by 17 and the denominator is decreased by 1, the number obtained is $\frac{3}{2}$. Find the rational number.

12. Solve $\frac{x-3}{5} + \frac{x-4}{7} = 6 - \left(\frac{2x-1}{35}\right)$