## **Application of Equations**

- 1. The sum of two numbers is 95. If one number exceeds the other by 3, find the numbers.
- 2. The present age of Sania's father is three times that of Sania. After five years, sum of their ages would be 70 years. Find their present ages.
- 3. Mr. Kailash owns a plot of rectangular shape. He has fenced it with a wire of length 716 m. The length of the plot exceeds the breadth by 8m. Find the length and breadth of the plot.
- 4. The denominator of a fraction is greater than its numerator by 8. If one is added to the numerator and 4 is subtracted from the denominator, the fraction becomes  $\frac{4}{7}$  Find the original fraction.
- 5. A purse contains Rs 250 in notes of denominations of 10 and 50. If the number of 10 rupee notes is one more than that of 50 rupee notes. Find the number of notes of each denomination.
- 6. In a class of 45 students, the numbers of boys is  $\frac{7}{9}$  of the girls. Find the number of girls in the class.
- 7. Reema, who lived in a town, has to travel  $\frac{3}{4}$  of his journey by train,  $\frac{1}{8}$  by car,  $\frac{1}{12}$  by cart and remaining 4 km on foot to reach her village. How far is the village from the town?
- 8. Length of a rectangle is 2cm more than twice its breadth. If the perimeter of the rectangle is 28cm, find its length and breadth.
- 9. Seema has 25 paise coins and 50 paise coins in her purse. The number of 25 paise coins is thrice the number of 50 paise coins. If the total value of money in the purse is Rs 80, find the number of 25 paise and 50 paise coins in the purse.
- 10. A man's property was distributed among his wife and two sons. If the wife got the half the share and the remaining was distributed equally among his two sons such that each son gets Rs 50,000. What was the worth of the property and how much did his wife get?