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## Chapter-2 (Linear Equation in One Variable)

1) Find the solution of  $2x - 3 = 7$

2) Solve :  $2y + 9 = 4$

3) Solve :  $\frac{x}{3} + \frac{5}{2} = -\frac{3}{2}$

4) Solve :  $\frac{15}{4} - 7x = 9$

5) What should be added to twice the rational number  $-\frac{7}{3}$  to get  $\frac{3}{7}$ ?

6) The perimeter of a rectangle is 13cm and its width is  $2\frac{3}{4}$  cm. Find the length rectangle.

7) The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present age.

8) Bansi has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs. 77, how many coins of each denomination does he have?

9) The sum of three consecutive multiple of 11 is 363. Find these multiples.

10) The difference between two whole numbers is 66. The ratio of the two numbers is 2:5. What are the whole numbers.?

11) Dereshi has a total of Rs. 590 in currency notes in the denomination of Rs. 50, Rs. 20 and Rs. 10. The ratio of the numbers of Rs. 50 notes and Rs. 20 notes is 3:5. If she has a total of 25 notes, how many notes of each denomination she has?

12) Solve :  $2x - 3 = x + 2$

13) Solve :  $5x + \frac{7}{2} = \frac{3}{2}x - 14$

14) The digits of a two-digit number differ by 3. If the digits are interchanged, and the resulting number is added to the original number, we get 143. Find the original number.

15) Arjun is twice as old as Shriya. Five years ago his age was three times Shriya's age. Find their present ages.

16) Solve :  $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

17) Solve :  $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$

18) Solve :  $\frac{x+1}{2x+3} = \frac{3}{8}$

19) Present ages of Anu and Raj are in the ratio 4:5. Eight years from now the ratio of their ages will be 5:6. Find their present ages.

$$20) \text{ Solve : } \frac{x}{x+15} = \frac{4}{7}$$

$$21) \text{ Solve for } t : (a) 0.04(6t-1) = 0.2t+5$$

$$(b) \frac{2t+8}{3} - 5 = \frac{3t+11}{2}$$

$$22) \text{ Solve : } (a) 3(x-1) + 2(2x+3) = 7$$

$$(b) 2.5x+3 = 1.9x+3.6$$

$$23) \text{ Solve the equation : } 0.3 + 0.7x = 0.85x$$

$$24) \text{ Solve : } \frac{x}{2} - \frac{1}{4}\left(x - \frac{1}{3}\right) = \frac{1}{6}(x+1) + \frac{1}{12}$$

25) The sum of three consecutive multiples of 11 is 198.  
Find the three multiples.