



CHAPTER - 4

SIMPLE EQUATIONS (Ex: 4.4)

Question 1: Set up equations and solve them to find the unknown numbers in the following cases:

- (a) Add 4 to eight times a number; you get 60.
- (b) One-fifth of a number minus 4 gives 3.
- (c) If I take three-fourths of a number and add 3 to it, I get 21.
- (d) When I subtracted 11 from twice a number, the result was 15.
- (e) Munna subtracts thrice the number of notebooks he has from 50, he finds the result to be 8.
- (f) Ibenhal thinks of a number. If she adds 19 to it and divides the sum by 5, she will get 8.
- (g) Anwar thinks of a number. If he takes away 7 from $\frac{5}{2}$ of the numbers, the result is 23.

Solution: (a) Add 4 to eight times a number; you get 60.

Let the required number be x .

Step I: Add 4 to eight times a number

$$8x + 4$$

Step II: you get 60

$$8x + 4 = 60 \text{ is the required equation}$$

Solving the equation, we have

$$8x + 4 = 60$$

$$\Rightarrow 8x = 60 - 4 \text{ (Transposing 4 to RHS)}$$

$$\Rightarrow 8x = 56$$

(Dividing both sides by 8)

$$\Rightarrow x = 7$$

Thus, $x = 7$ is the required unknown number. **Ans.**