

Maths-7

Chapter 7: Simple Linear Equations – Worksheet

A. Multiple Choice Questions (MCQs)

1. The solution of $x + 5 = 12$ is:

A) 5 B) 12 C) 7 D) 17

2. The value of x in $3x = 18$ is:

A) 6 B) 3 C) 18 D) 9

3. Which of the following is a linear equation?

A) $x^2 + 3 = 7$ B) $2x + 1 = 9$ C) $xy = 3$ D) $x^3 = 8$

4. If $x - 4 = 10$, then $x =$:

A) 6 B) 14 C) -6 D) -14

5. The variable in $7x - 3 = 11$ is:

A) 7 B) 3 C) x D) 11

B. Fill in the Blanks

1. An equation has an _____ sign.

2. The value that satisfies an equation is called its _____.

3. In $5x = 20$, $x =$ _____.

4. The equation $x - 9 = 0$ gives $x =$ _____.

5. 3 more than a number x is written as _____.

C. Short Answer Questions

1. Solve: $x - 7 = 15$

2. Solve: $4x = 32$

3. Write an equation for: 'A number increased by 9 is 25'.

4. Solve: $12 + x = 30$

5. Find the value of x : $3x - 5 = 16$

D. Word Problems

1. Riya is 6 years younger than her brother. If her age is x , write an equation showing her brother's age is 20.

2. A shopkeeper sold 5 pens. Each pen costs ₹ x . If total price is ₹75, write and solve the equation.

3. A number multiplied by 7 gives 84. What is the number?

4. After spending ₹125, Neha has ₹ x left. If she initially had ₹200, write and solve the equation.

5. A rope of length x metres is cut into two pieces of 8 m and 6 m. Write an equation for the total length and find x .