

CLASS-8-MATHEMATICS
CHAPTER-2
LINEAR EQUATIONS IN ONE VARIABLE

WORK SHEET 1 of 4

Solve the linear equations (Questions 1 to 8).

1) $x - 2 = 7$

2) $y + 3 = 10$

3) $6 = z + 2$

4) $\frac{3}{7} + x = \frac{17}{7}$

5) $\frac{t}{5} = 10$

6) $7x - 9 = 16$

7) $17 + 6p = 9$

8) $\frac{x}{3} + 1 = \frac{7}{15}$

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

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

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

Multiple Choice Questions

In questions 11 to 15 out of the four options only one is correct, write the correct answer.

12) The shifting of a number from one side of an equation to other is called

(a) Transposition

(b) Distributivity

(c) Commutativity

(d) Associativity

13) If a and b are positive integers, then the solution of the equation $ax = b$ has to be always

(a) positive

(b) negative

(c) one

(d) zero

- 14) Linear equation in one variable has
- (a) only one variable with any power. (b) only one term with a variable.
(c) only one variable with power 1. (d) only constant term.
- 15) Which of the following is a linear expression:
- (a) $x^2 + 1$ (b) $y + y^2$
(c) 4 (d) $1 + z$
- 16) A linear equation in one variable has
- (a) Only one solution (b) Two solutions
(c) More than two solutions (d) No solution

Fill in the blanks

In questions 16 to 18, fill in the blanks to make each statement true.

- 17) Any value of the variable which makes both sides of an equation equal is known as a _____ of the equation.
- 18) 9 is subtracted from the product of p and 4, the result is 11. The value of p is _____
- 19) On subtracting 8 from x , the result is 2. The value of x is _____.
- 20) When a number is divided by 8, the result is -3 . The number is _____
