

ASSIGNMENT- 1

22.10.20

A Match the equation with its solution.

1. $x - 9 = 10$

a. $x = 1$

2. $15x = 3$

b. $x = 19$

3. $2(x + 1) = 0$

c. $x = -\frac{1}{12}$

4. $\frac{6}{x} = 6$

d. $x = -1$

5. $3x + \frac{1}{4} = 0$

e. $x = \frac{1}{5}$



B Fill in the blanks.

1. $\frac{t}{7} - 14 = 2$

2. $5(x - 5) = 5$

3. $p + \frac{3}{8} = \frac{3}{8}$

4. $\frac{m+6}{4} = 1$

$\Rightarrow \frac{t}{7} = \underline{\hspace{2cm}}$

$\Rightarrow x - 5 = \underline{\hspace{2cm}}$

$\Rightarrow p = \underline{\hspace{2cm}}$

$\Rightarrow m + 6 = \underline{\hspace{2cm}}$

$\Rightarrow t = \underline{\hspace{2cm}}$

$\Rightarrow x = \underline{\hspace{2cm}}$

$\Rightarrow m = \underline{\hspace{2cm}}$

C Write true or false.

1. If in an equation, LHS = RHS for $x = 3$, then $x = 3$ is the solution to that equation. _____

2. If the same number is added to both the sides of a given equation, the equality gets changed. _____

3. There exists a unique solution to an equation. _____

4. If in an equation, LHS > RHS for $x = -1$, then $x = -1$ is the solution to that equation. _____

5. There exist an infinite number of equations corresponding to a given solution. _____

D. Tick the correct option.

- $12x + 12 < 11x + 20$ is
 - an equation.
 - a linear equation in one variable.
 - an inequality.
 - a linear equation in two variables.
- $\frac{t}{2} + 2 = 6$ can be expressed as
 - 2 added to half of a number t gives 6.
 - half of a number t is 2 less than 6.
 - the sum of half of a number t and 2 is 6.
 - all of these
- Radha's mass is 5 kg more than thrice her brother's mass. If her mass is 65 kg and her brother's mass is x kg, the equation for this statement is
 - $2x + 5 = 65$.
 - $3x + 5 = 65$.
 - $3x - 5 = 65$.
 - $3y + 5 = 65$.
- 8 added to a certain number multiplied by 2 gives 24 more than the number. The number is
 - 15.
 - 16.
 - 6.
 - 17.

E Form an equation and solve.

- Think of a number. Add 7 to it. Divide the sum by 7 and then multiply the quotient by 3. The answer is 9. Find the number.
- Divide 100 into two parts such that the greater part is thrice the smaller part.
- 12 added to four times a number equals twice 6 subtracted from the number. Find the number.
- The sum of three consecutive multiples of 5 is 60. Find the numbers.