Algebra Worksheet – 2

1. Number of variables in a simple linear equation is equal to _____.

a)   One

b)   Two

c)   Zero

d)   None of these

2. What is the power of variable in a simple equation?

a)   0

b)   1

c)   2

d)   None of these

3. The equation for the statement: one fifth of a number added to 20 is 25.

a) $\dfrac{x}{5} + 25 = 20$

b) $\dfrac{x}{5} - 25 = 20$

c) $\dfrac{x}{5} + 20 = 25$

d)   None of these

4. Mention the equation for the statement: twice the length ('a' meter)of the room is 240 meters.

a) $2a = 240$

b) $2a + 240 = 0$

c) $\dfrac{a}{2} = 240$

d)   None of these

5. Which of the following is an equation with a variable?

a) $20 - 5 = 12$

b) $x - 20 = 25$

c) $75 \div 5 = 15$

d) $\dfrac{2}{5} + 25 = 20$

6. a + 12 = 16, what is the value of 'a'?

a) $a = 10$

b) $a = 6$

c) $a = 4$

d)   None of these

7. $\dfrac{x}{5} = 12$, find the value of x.

a)   5

b)   25

c)   50

d)   60

8. If one pencil costs Rs. x, then the cost of 25 pencils is _____.

a)   Rs. x

b)   Rs. 25 x

c)   Rs. 52 x

d)   None of these

9. x = 3, which expression is correct.

a) x + 10 = 3   b) x + 4 = 7

c) x + 7 = 10   d)   Both B & C

10. $2x$ + 10 < 3 is a linear equation. Mark True / False.

a)   True   b)   False

11. y meters are equal to 100 y cm. Mark True / False.

a)   True   b)   False

12. If x is variable then x + 5 is not a variable. Mark True / False.

a)   True   b)   False

13. $5x$ + 7 = 32

a) x = 7   b) x = 4

c) x = 5   d)   None of these

14. Solve the following linear equation.

$2(3x + 2) = 58$

15. Solve the following linear equation.

$$2x - \frac{2}{5} = \frac{3}{5} - x$$