Algebra Worksheet – 1

1. Find the perimeter of a square, where 'a' is length of a side.

2. find the perimeter of a rectangle, where it's length 'l' and breadth 'b'.

3. Side of an equilateral triangle is 'a', then find the perimeter of the triangle.

4. a x (b + c) = a x b + a x c. Mark True / False.

5. ab ≠ ba. Mark True / False.

6. Radius of a circle is 'r', find the diameter of the circle.

7. The length of one side of cube is 'a'. Find the sum of lengths of all the edges.

8. Constants are known as literals, mark True / False.

9. If we add a variable with constant, then the result will be a constant. Mark True / False.

10. $2n - 7 =$ _____.

a)	Constant	b)	Variable
c)	Zero	d)	None of these

11. $\frac{2}{3}$ is a variable.

a)	True	b)	False

12. Find the number of terms in the below given algebraic expression.

$$3a - \frac{b}{3}$$

a)	$3a$	b)	$\frac{b}{3}$
c)	$3a, \frac{b}{3}$	d)	$3a, -\frac{b}{3}$

13. Find out the constant term in the below given algebraic expression.

$$5a^2 + 3b - \frac{1}{3}$$

a)	5	b)	3
c)	$-\frac{1}{3}$	d)	$\frac{1}{3}$

14. $5a^2b$, $10ab^2$ are like terms. Mark True / False.

15. 23mn, 500mn are like terms.

a)   True   b)   False

16. What is the degree of the below mentioned polynomial.

$- 4 + 5t - 6t^2$

a)   1   b)   2

c)   4   d)   -4

17. What is the degree of the below mentioned polynomial.

      25

a)   1   b)   2

c)   3   d)   0

18. Write down the algebraic expression by using below mentioned terms.

      $5a, -6ab^2, - 3$

a) $5a + 6ab^2 + 3$ b) $5a - 6ab^2 - 3$

c) $5a + 6ab^2 - 3$ d)   None of these

19. What is the numerical coefficient of $- 5n^2$?

a)   5   b)   -5

c)   0   d)   1

20. What is the literal coefficient of $-2ab^2$?

a)   -2   b) $2ab^2$

c) ab^2 d)   None of these