

1. Expressions consists of \_\_\_\_\_ and \_\_\_\_\_.

(a) variables, constants

(b) identities

(c) expressions

(d) none of these

► (a) variables, constants

2. Which of the following is an expression?

(a)  $1/2$

(b) 3

(c)  $3x-2$

(d) 2

► (c)  $3x-2$

3. The coefficient of  $x$  in the expression  $-7x + 5$  is

(a) 5

(b) -7

(c) 7

(d) 0

► (b) -7

4. The number of terms in the expression

$2x^2+3x+5$  is

(a) 1

(b) 2

(c) 3

(d) 5

► (c) 3

5. Like terms in the expression  $7x, 5x^2, 7y, -5yx,$

$-9x^2,$  are

(a)  $7x, -5yx$

(b)  $5x^2, -5yx$

(c)  $5x^2, -9x^2$

(d)  $7x, 7y$

► (c)  $5x^2, -9x^2$

6. Terms are added to form \_\_\_\_\_.

(a) expressions

(b) terms

(c) identities

(d) none of these

► (a) expressions

7. Add:  $7xy + 5yz - 3zx$ ,  $4yz + 9zx - 4y$ ,  $-3xz + 5x - 2xy$ .

(a)  $5xy + 3zx + 5x - 4y$

(b)  $5xy + 9yz + 2zx + 5x - 4y$

(c)  $5xy + 9yz + 3zx + 5x - 4y$

(d)  $5xy + 9yz + 3zx + 4y$

► (c)  $5xy + 9yz + 3zx + 5x - 4y$

8. The expression  $x + y + z$  is in

(a) one variable

(b) no variable

(c) three variables

(d) two variables

► (c) three variables

9. Which of the following is a monomial ?

(a)  $4x^2$

(b)  $a + 6$

(c)  $a + 6 + c$

(d)  $a + b + c + d$

► (a)  $4x^2$

10. How many terms are there in the expression

$$5 - 3xy ?$$

(a) 1

(b) 2

(c) 3

(d) 5

► (b) 2

11. How many terms are there in the expression

$$5xy + 9yz + 3zx + 5x - 4y ?$$

(a) 1

(b) 3

(c) 4

(d) 5

► (d) 5

12. If  $x = 3$  is solution of  $x^2 + kx + 15$ , value of  $k$  is

(a)  $k = -8, x = 3$

(b)  $k = 8, x = 5$

(c)  $k = 6, x = 5$

(d) None of above

► (a)  $k = -8, x = 3$

13. The coefficient in the term  $-5x$  is

(a) 5

(b)  $-5$

(c) 1

(d) 2

► (b)  $-5$

14.  $n(4 + m) = 4n + \underline{\hspace{2cm}}$

(a)  $4m$

(b)  $4n$

(c)  $4mn$

(d)  $nm$

► (d)  $nm$

15. The like terms of the following are

(a)  $x, 3x$

(b)  $x, 2y$

(c)  $2y, 6xy$

(d)  $3x, 2y$

► (a)  $x, 3x$

16. Value of expression ' $a(a^2+a+1)+5$ ' for ' $a = 0$ '

is

(a)  $a+5$

(b) 1

(c) 6

(d) 5

► (d) 5

17. Which of the following is like term as  $7xy$ ?

(a) 9

(b)  $9x$

(c)  $9y$

(d)  $9xy$

► (d)  $9xy$

18. The area of triangle is ' $xy$ ' where ' $x$ ' is length and ' $y$ ' is breadth. If the length of rectangle is increased by 5 units and breadth is decreased by 3 units, the new area of rectangle will be

(a)  $(x-y)(x+3)$

(b)  $(xy+15)$

(c)  $(x+5)(y-3)$

(d)  $(xy+5-3)$

► (c)  $(x+5)(y-3)$

19. The expression  $7xy$  has the factors

(a)  $7, x, y$

(b)  $x, y$

(c)  $7, x$

(d)  $7, y$

► (a)  $7, x, y$

20. Which of the following is a binomial?

(a)  $4x + y + 2$

(b)  $2x + 7$

(c)  $3x + 4y - 6$

(d)  $3x$

► (b)  $2x + 7$

21. When numbers/literals are added or subtracted, they are called \_\_\_\_\_.

(a) identities

(b) expressions

(c) variables

(d) terms

► (d) terms