

(a) x, 3x (b) x, 2y

Algebraic Expressions and Identities

Question 1.
When numbers/literals are added or subtracted, they are called (a) identities
(b) expressions
(c) variables
(d) terms
Answer: (d) terms
Question 2.
The expression 7xy has the factors
(a) 7,x,y
(b) x,y
(c) 7,x
(d) 7,y
Answer: (a) 7,x,y
Question 3.
Which of the following is like term as 7xy?
(a) 9
(b) 9x
(c) 9y
(d) 9xy
Answer: (d) 9xy
Question 4.
The like terms of the following are

- (c) 2y, 6xy
- (d) 3x, 2y

Answer: (a) x, 3x

Question 5.

The coefficient in the term -5x is

- (a) 5
- (b) -5
- (c) 1
- (d) 2

Answer: (b) -5

Question 6.

How many terms are there in the expression 5xy + 9yz + 3zx + 5x - 4y?

- (a) 1
- (b) 3
- (c) 4
- (d) 5

Answer: (d) 5

Question 7.

Which of the following is a monomial?

- (a) $4x^2$
- (b) a + 6
- (c) a + 6 + c
- (d) a + b + c + d

Answer: (a) $4x^2$

Question 8.

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

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

Question 9.
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
Answer: (c) $5x^2$, $-9x^2$
Question 10.
The coefficient of x in the expression $-7x + 5$ is
(a) 5
(b) -7
(c) 7
(d) 0
Answer: (b) -7
Question 11.
Expressions consists of and
(a) variables, constants
(b) identities
(c) expressions (d) none of these
(d) none of these
Answer: (a) variables, constants
Question 12.
The volume of rectangular box whose length, breadth and height is 2p,4q.8r respectively is
(a) 14pqr
(b) 2p+4q+8r
(c) 64pqr
(d) 64
Answer: (c) 64pqr
Question 13.
Which of the following is a binomial?

- (a) 4x + y + 2
- (b) 2x + 7
- (c) 3x + 4y 6
- (d) 3x

Answer: (b) 2x + 7

Question 14.

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)

Answer: (c) (x+5)(y-3)

Question 15.

Value of expression 'a(a^2+a+1)+5' for 'a' = 0 is

- (a) a+5
- (b) 1
- (c) 6
- (d) 5

Answer: (d) 5

Question 16.

$$n(4+m) = 4n +$$

- (a) 4m
- (b) 4n
- (c) 4mn
- (d) nm

Answer: (d) nm

Question 17.

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
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(d) None of above

Answer: (a) k = -8, x = 3

Question 18.

How many terms are there in the expression 5 - 3xy?

- (a) 1
- (b) 2
- (c) 3
- (d) 5

Answer: (b) 2

Question 19.

The expression x + y + z is in

- (a) one variable
- (b) no variable
- (c) three variables
- (d) two variables

Answer: (c) three variables

Question 20.

Terms are added to form _____.

- (a) expressions
- (b) terms
- (c) identities
- (d) none of these

Answer: (a) expressions

Question 21.

The number of terms in the expression $2x^2+3x+5$ is

- (a) 1
- (b) 2
- (c) 3
- (d) 5

Answer: (c) 3

Question 22.

Which of the following is an expression?

- (a) $\frac{1}{2}$ (b) 3 (c) 3x-2
- (d) 2

Answer: (c) 3x-2