

VII Class

ALGEBRAIC EXPRESSIONS

1. The letters which are used to represent numbers are called _____
2. The number which is 3 less than y is _____ []
a) $3 - y$ b) $y - 3$ c) $-y - 3$ d) $y + 3$
3. The number which is 5 more than $\frac{1}{3}$ of a number 'y' _____ []
a) $\frac{y}{3} + 5$ b) $y + \frac{5}{3}$ c) $\frac{y+5}{3}$ d) $\frac{y}{3} - 5$
4. The number which is 7 less than the product of the numbers 'x' and 'y' _____ []
a) $xy + 7$ b) $-7 + xy$ c) $-7 - xy$ d) $-xy + 7$
5. If 4 is added to x, it becomes z. Write 'z' in terms of x. []
a) $z + 4 = x$ b) $x + 4 = z$ c) $z = x - 4$ d) $x + z = 4$
6. 3 more than twice a number y is _____ []
a) $3y + 2$ b) $3 - 2y$ c) $2y + 6$ d) $2y + 3$
7. _____ is a combination of numbers, literals and arithmetical operations. []
8. Give an example of an algebraic expression. _____
9. If an algebraic expression consists of only one term, it is called a _____ []
a) trinomial b) binomial c) monomial d) polynomial
10. If an algebraic expression consists of two terms, it is called a _____ []
a) binomial b) monomial c) trinomial d) none
11. $2x + 3y - z$ is an example of a _____ []
a) trinomial b) binomial c) monomial d) none
12. When two expressions are said to be equal ? _____
13. In $-18xyz$; the numerical coefficient is _____ []
a) -18 b) xy c) yz d) xyz
14. In $2x^2y^3$; the literal coefficient is _____ []
a) 2 b) $2x^2$ c) $2x^2y^3$ d) x^2y^3
15. In $5xy^2z^4$; the coefficient of $5xz^4$ is []
a) $5xy^2z^4$ b) $5y^2$ c) xy^2z^4 d) y^2
16. When the terms have the same literal factors, they are called _____ terms []
a) like b) unlike c) disjoint d) none

17. In the expression $2xy - 2x + 7xy + 4xz$, _____ and _____ are like terms. []
 a) $2x$ and $7xy$ b) $2xy$ and $4xz$ c) $2x$ and $4xz$ d) $2xy$ and $7xy$
18. In the expression $3pq - 4qr + 8pq - 7st$, _____ and _____ are like terms. []
 a) $3pq$ & $-4qr$ b) $4qr$ & $8pq$ c) $3pq$ & $8pq$ d) $8pq$ & $7st$
19. In the following expressions, which pairs contain like terms? []
 a) $16z$, $18x$ b) $17xy$, $-8xy$ c) $10xy$, $-5y$ d) $15x^2y$, $15xy$
20. Write the coefficient of 'x' in $-6xyz$ []
 a) 6 b) $6x$ c) $-6yz$ d) $-6xy$
21. Coefficient of 'x' in $x - y$ is []
 a) -1 b) 1 c) x d) y
22. $3(x^2 + y^2)$ and $3y^2 + 3x^2$ are _____ expressions []
 a) disjoint b) equal c) unequal d) numerical
23. $3pq + (-2pq) + (-11pq) =$ _____ []
 a) $10pq$ b) $16pq$ c) $-10pq$ d) $-16pq$
24. $8ab^2 - (24ab^2) =$ _____ []
 a) $16ab^2$ b) $-16ab^2$ c) $32ab^2$ d) $-32ab^2$
25. $-9x^2 + 7x^2 - 16x^2 =$ _____ []
 a) $-25x^2$ b) -18 c) $-18x^2$ d) $-11x^2$
26. The sum of $3x + 4y - 5z$, $5y + 2x$, $7x - 8y$ & $4x - 9y - 5z$ is []
 a) $16x - 8y - 10z$ b) $8x - 16y - 5z$ c) $-16x + 8y + 10z$ d) $-3x + 11y + 16z$
27. on Subtracting $12xy - 5yz - 9zx$ from $15xy + 6yz + 7zx$ is _____ []
 a) $-3xy + 16zx$ b) $11yz - 3xy - 16zx$
 c) $3xy + 11yz + 16zx$ d) $16xy + 11yz + 16zx$
28. The sum of $-abc$, $13abc$, $5abc$ is []
 a) 17 b) $-17abc$ c) $18abc$ d) $17abc$
29. $3m^2 - 3mn + 8 - (-m^2 + 3mn) =$ _____ []
 a) $2m^2 + 3mn + 8$ b) $4m^2 + 8$
 c) $4m^2 + 6mn + 8$ d) $4m^2 - 6mn + 8$
30. What should be added to $3x^3 - 2x^2 + 5x + 1$ to get $x^3 - 2x^2 + 4x - 1$? []
 a) $2x^3 + x + 2$ b) $-2x^3 - x - 2$ c) $2x^3 + x - 2$ d) $4x^3$
31. What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$? _____ []
 a) $x^2 + 2xy - y^2$ b) $-x^2 - 2xy + y^2$ c) $x^2 + 2xy$ d) $3x^2 + 4xy + y^2$

32. What should be subtracted from $2x^2-xy-5y^2$ to make it $-5x^2-3xy-2y^2$? []
 a) $7x^2+2xy+3y^2$ b) $-7x^2-2xy+3y^2$ c) $7x^2+2xy-3y^2$ d) $-3x^2-4xy-7y^2$
33. What should be subtracted from $-13x+5y-8z$ to obtain $11x-16y+7z$? ____ []
 a) $24x-21y+15z$ b) $-2x-11y-z$ c) $-24x+21y-15z$ d) $-8x+7y-13z$
34. If $a = x-2$, $b = y+2$ and $c = -x+2y$ then the value of $a+b+c$ is ____ []
 a) $3y$ b) $3x+2y$ c) $-3y$ d) 0
35. If $a = 2$, $b = 3$ and $c = 1$, find the value of $a^2+2(b^2+c^2)$ ____ []
 a) 20 b) 24 c) 12 d) 30
36. If $a = 1$, $b = 0$, $c = -1$, the value of $c^2-2ab(b-a)$ is ____ []
 a) 1 b) -1 c) 2 d) -4
37. If $x = 0$ and $y = -1$, the value of $x+y+8$ is ____ []
 a) 9 b) 8 c) 7 d) 6
38. If $x = 0$, $y = -2$, $z = 1$ the value of $2x^2y^3z$ is ____ []
 a) 1 b) 0 c) -2 d) 8
39. If $c = 35$ the value of $\frac{9}{5}C + 32$ equals to ____ []
 a) 85 b) 75 c) 95 d) 100
40. If $a = 18$, $b = 10$ and $c = 5$, find the value of abc ____ []
 a) 800 b) 700 c) 600 d) 900