CLASS – VI   MATHEMATICS

5.ALGEBRA

1.Which of   the following is an algebraic expression.

       (a) $10 \div 2 + 3$ (b) $2x + y = 5$ (c) $15 – 7 = 8$ (d) $(5/8) - 2$

2.Sum of 5x and 4y is

       (a) $5 + x + 4 + y$ (b) $5x + 4 + y$ (c) $9xy$ (d) $5x + 4y$

3.Commutative property of addition using the variables x and y is

       (a) $x + y = y + x$ (b) $xy = yx$ (c) $x + y = y + x$ (d) $x + y = x - y$

4.3 less than the sum of a and b is

       (a) $3 - (a + b)$ (b)$(a + b) - 3$ (c) $3 + (a + b)$ (d) $(a + b) + 3$

5.8ab -5cd is a

       (a) monomial   (b)   binomial   (c)   trinomial   (d)
       none

6.Perimeter of a triangle with sides p,q and r is.

       (a) pqr   (b) 3pqr   (c) $3 \times (p + q + r)$ (d) $p + q + r$

7.If Anil's present age is y years, then his age before 3 years

       (a) $(y - 3)$ years   (b) $(3 - y)$ years (c) $(y + 3)$ years (d) $3y$ years

8.Cost of one pen is Rs.x and cost of one pencil Rs.y, then cost of 10 pens and 4 pencils is

       (a) $14(x + y)$ (b) $10x + 4y$ (c) $4x + 10y$ (d) $(10 + 4) (x + y)$

9.Solution of x in the equation $x + 7 = 15$ is

       (a) -8   (b)   22   (c) 8 (d)   -22

10.Amit earns Rs.x in a month and spends Rs.y in every month..His income for ayear

       (a) $12x + y$ (b) $12(x - y)$ (c) $12x – 12y$ (d) $12(x + y)$

11.Speed of   a car   is 60km/hr. Distance car covered in x hours

       (a) $(60 \div x)$ km/hr   (b)$60x$ km/hr (c) $(60 + x)$ km/hr   (d) $(x \div 60)$
       km/hr

12.Which of the following equation satisfies $x = 3$

       (a) $3x = 0$ (b) $3 + x = 0$ (c) $3x = 9$ (d) $9x = 3$

13.n increased 2 times m is written as

       (a) $2m + n$ (b) $2mn$ (c) $2n + m$ (d) $2(m + n)$

14.The value of a   in the equation $8a – 3 = 5$

       (a) 8   (b)   3   (c)   1   (d)   5

15.You have thought of a number x, then twice the number you thought of subtracted by 3 is.

       (a) $2 – 3x$ (b) $2 (x – 3)$ (c) $2x - 3$ (d) $3 – 2x$

16.If side of a square is y, then its area.

       (a) $4y$ (b) $y \times y$ (c) $4 + y$ (d) $y \div 4$

17.Age of Sonu's father is thrice his age. Father's age after five years is

       (a) $3x$ (b) $3x - 5$ (c) $3 \times 5 \times x$ (d) $3x + 5$

18.If n   students are sitting in a row. Number of students sitting in   m   rows

       (a) mn   (b) $m + n$ (c) $m - n$ (d) $m \div n$

19.Which of the following value makes the equation $6s – 12 = 3s$, is correct

       (a) -4   (b) 6 (c) -6   (d) 4

20.If r   is the radius and d is the diameter of a circle, then the relation between them

       (a) $r = 2d$ (b) $d = 2r$ (c) $r \div 2 = d$ (d) $dr = 2$

21.Which of the following equation is correct

       (a) $(x + y) z = $ $x (y + z)$ (b) $x (y + z) = xy + xz$ (c) $(x + y) + z = (x \times y) z$
(d) $x – y + y= y – x + x$

22.Five times of the sum of 3x and 4y

    (a)   5 × 3x × 4y   (b) 5 + (3x × 4y)   (c) 5 (3x + 4y) (d) 5 + (3x + 4y)

23.Product of 7p and 2q added to the quotient of 3p ÷ 5q is

(a) (7p × 2q) + (3p ÷ 5q)   (b) (7p + 2q) × (3p ÷ 5q) (c) (7p + 2q) + (3p × 5q)
(d)(7p × 2q) ÷ (3p ÷ 5q)

24.Which of the following is an algebraic equation

(a)5x + 3 < 9 (b) 5x + 3 + 8 (c) 5x + 3 = 8 (d) 5 + 3 = 8
25. Constant in the expression 10x + 5y – 6z + 7 is
(a)   10 (b) 5   (c) -6 (d) 7

Answer key for algebra

NOTICE

Dear Parents,

- Let the children do these sheets himself/herself.
- Answer sheet of these questions will be uploaded on demand.
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