ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra & Geometry Work sheet 6

Marks:15 **Fundamental concepts & operations**

Date:1.2.2021

Answer all the following questions(1×15=15)

1. The sum of 7x, 10x and 12x is
   (a) 17x
   (b) 22x
   (c) 19x
   (d) 29x.
2. The sum of 8pq and -17 pq is
   (a) pq
   (b) 9pq
   (c) -9pq
   (d) -pq.
3. The sum of $x^2 - y^2$, $y^2 - z^2$ and $z^2 - x^2$ is
   (a) 0
   (b) $3x^2$
   (c) $3y^2$
   (d) $3z^2$
4. . What do you get when you subtract -3xy from 5xy?
   (a) 3xy
   (b) 5xy
   (c) 8xy
   (d) xy.
5. The product of 4mn and 0 is
   (a) 0
   (b) 1
   (c) mn
   (d) 4 mn.
6. The product of 5x and 2y is
   (a) xy
   (b) 2xy
   (c) 5ay
   (d) 10xy.
7. The product of 7x and -12x is
   (a) $84x^2$
   (b) $-84x^2$
   (c) x^2
   (d) $-x^2$.

8. The area of a rectangle whose length and breadth are $9y$ and $4y^2$ respectively is
   (a) $4y^3$
   (b) $9y^3$
   (c) $36y^3$
   (d) $13y^3$
9. The volume of a cube of side $2a$ is
   (a) $4a^2$
   (b) $2a$
   (c) $8a^3$
   (d) 8.
10. The product of x^2, $-x^3$, $-x^4$ is
   (a) x^9
   (b) x^5
   (c) x^7
   (d) x^6
11. $(x - y)(x + y) + (y - z)(y + z) + (z - x)(z + x)$ is equal to
   (a) 0
   (b) $x^2 + y^2 + z^2$
   (c) $xy + yz + zx$
   (d) $x + y + z$.
12. An algebraic expression that contains only one term is called:
   (a) Monomial
   (b) Binomial
   (c) Trinomial
   (d) None of the above
13. A polynomial contains _____ number of terms:
   (a) One
   (b) Two
   (c) Three
   (d) Any
14. If we subtract $4a - 7ab + 3b + 12$ from $12a - 9ab + 5b - 3$, then the answer is:
   (a) $8a + 2ab + 2b + 15$
   (b) $8a + 2ab + 2b - 15$
   (c) $8a - 2ab + 2b - 15$
   (d) $8a - 2ab - 2b - 15$
15. If we multiply $5x$ and $(-4xyz)$, then we get:
   (a) $20x^2yz$
   (b) $-20x^2yz$
   (c) x^2yz
   (d) $-2xyz$

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