



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra & Geometry Work sheet 6 Answer key
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 $-17pq$ 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) $4mn$.
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) $8a - 2ab - 2b - 15$
Answer: (c) $8a - 2ab + 2b - 15$
Hint:
 $(12a - 9ab + 5b - 3) - (4a - 7ab + 3b + 12)$
 $= 12a - 9ab + 5b - 3 - 4a + 7ab - 3b - 12$
 $= (12 - 4)a - (9 - 7)ab + (5 - 3)b - 3 - 12$
 $= 8a - 2ab + 2b - 15$
15. If we multiply $5x$ and $(-4xyz)$, then we get:
(a) $20x^2yz$
(b) **$-20x^2yz$**
(c) x^2yz
(d) $-2xyz$

