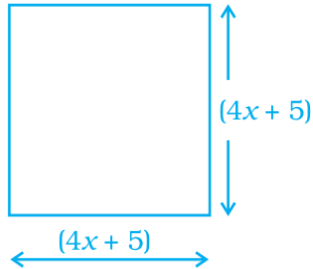


PSBB LEARNING LEADERSHIP ACADEMY
WEEKEND ASSIGNMENT
MATHEMATICS
CLASS:VIII
ALGEBRAIC EXPRESSIONS

1. The product of a monomial and a binomial is a
(a) monomial (b) binomial (c) trinomial (d) none of these
2. Which of the following is correct?
(a) $(a - b)^2 = a^2 + 2ab - b^2$ (b) $(a - b)^2 = a^2 - 2ab + b^2$ (c) $(a - b)^2 = a^2 - b^2$ (d) $(a - b)^2 = a^2 + 2ab - b^2$
3. The sum of $-7pq$ and $2pq$ is
(a) $-9pq$ (b) $9pq$ (c) $5pq$ (d) $-5pq$
4. If we subtract $-3x^2y^2$ from x^2y^2 then we get
(a) $-4x^2y^2$ (b) $-2x^2y^2$ (c) $2x^2y^2$ (d) $4x^2y^2$
5. Product of the following monomials $4p$, $-7q^3$, $-7pq$ is
(a) $196p^2$ (b) $196pq^4$ (c) $-196p^2q^4$ (d) $196p^2q^3$
6. Square of $3x - 4y$ is
(a) $9x^2 - 16y^2$ (b) $6x^2 - 8y^2$ (c) $9x^2 + 16y^2 + 24xy$ (d) $9x^2 + 16y^2 - 24xy$
7. The value of $(a + b)^2 + (a - b)^2$ is
(a) $2a + 2b$ (b) $2a - 2b$ (c) $2a^2 + 2b^2$ (d) $2a^2 - 2b^2$
8. Which of the following is the numerical coefficient of $-5xy$?
(a) -5 (b) 5 (c) 1 (d) -1
9. What degree does $x^3 - x^2y^2 - 8y^2 + 2$ have?
(a) 2 (b) 3 (c) 4 (d) 7
10. In which of the following, the two expressions are like terms?
(a) $7x$ and $7y$ (b) $7x$ and $9x$ (c) $7x$ and $7x^2$ (d) $7x$ and $7xy$
11. SIMPLIFY:
 $(X^2 - 4) + (X^2 + 4) + 16$

12. Find the value of x , if $10000x = (9982)^2 - 18^2$ using identity.
13. Find the length of the side of the given square if area of the square is 625 square units and then find the values of x .



14. What should be added to $4c(-a + b + c)$ to obtain $3a(a + b + c) - 2b(a - b + c)$?
15. If $x \cdot \frac{1}{x} = 7$, then find the value of $x^2 + \frac{1}{x^2}$