St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2026-2027 - Worksheet

Class: VIII | **Subject: Maths** | **Topic**: **Algebraic Expressions and Identities** | **Worksheet No:12**

1. **Subtracting $7x + y$ from $-x + y$ gives**
   (a) $6x + 2y$ (b) $8x + 2y$ (c) $-8x$ (d) $8x$

2. **Use suitable identity to evaluate 99^2.**
   (a) 9801 (b) 10199 (c) 10201 (d) 10001

3. **Evaluate $(4x + y)^2$ by suitable identity**
   (a) $4x^2 + y^2 + 8x$ (b) $4x + y + 8xy$
   (c) $16x^2 + y^2 + 8xy$ (d) $16x^2+y^2+8$

4. **Find the value of 95 x 102 by suitable identity.**
   (a) 10310 (b) 10290 (c)10690 (d) 9690

5. **Simplification of $(t + s^2)(t^2 – s)$ is**
   (a) $t^3 + s^3 – s^2t^2 – ts$ (b) $t^3 – s^3 + s^2t^2 – st$ (c) $t^3 – s^3 + s^2t^2 + st$ (d) $t^3 + s^3 – s^2t^2 + st$

6. **Using identity $a^2 – b^2 = (a + b)(a – b)$, find $4^2 – 6^2$**
   (a) –20 (b) 20 (c) –12 (d) 12

7. **The expression in one variable is**
   (a) $x + x^2 + 1$ (b) $x + y$ (c) $x + 9y$ (d) xyz

8. **If $ab = 6$ and $a + b = 5$ then the value of $(a^2 + b^2)$ is**
   (a) 11 (b) 12 (c) 13 (d) 16

9. **If $x – y = 7$ and $xy = 9$, then the value of $(x^2 + y^2)$ is**
   (a) 64 (b) 67 (c) 63 (d) none of these

10. **Find the value of the expression $(81x^2 + 16y^2 – 72xy)$, when $x = 2/3$, $y = 3/4$.**
    (a) 5 (b) 7 (c) 9 (d) 11