

St. Andrews Scots School

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Session: 2025 - 2026

Worksheet

Class: VIII	Subject: Mathematics	Topic:Algebraic Expresions and Identities	Worksheet-9
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Q1;Which of the following is a binomial expression

- a) $X + Y$ b) $X + Y + Z$ c) $X^2 + Y^2 + Z^2$ d) $X^3 + Y^3 + Z^3$

Q2; What is the value of the expression $2a + 3b$ when $a=1$ and $b=2$

- a) 5 b) 8 c) 6 d) 7

Q3; Which of the following is a constant term in the expression $3x + 7$

- a) 3 b) x c) 7 d) $3x$

Q4;Which identity is used in the expansion of $(a+b)^2$

- a) $(a+b)^2 = a+b$ b) $a^2 + b^2$ c) $a^2 - 2ab + b^2$ d) $a^2 + 2ab + b^2$

Q5;The expression $x^2 + 6x + 9$ is a perfect square trinomial of the form

- a) $(x+3)^2$ b) $(x+6)^2$ c) $(x-3)^2$ d) $(x-6)^2$

Q6;The value of $3(a+b) - 4(a - b)$ when $a = 2$ and $b=1$ is

- a) 6 b) 4 c) 2 d) 8

Q7; What is the coefficient of x in the expression $5x + 3y$

- a) 3 b) 5 c) 8 d) 0

Q8; Expand $(x + 4)(x - 2)$

a) $x^2 + 2x - 8$

b) $x^2 - 2x + 8$

c) $x^2 + 2x - 8$

d) $x^2 - 2x - 8$

Q9; What Is the value of x if $3x + 7 = 19$

a) 3

b) 5

c) 4

d) 6

Q10; Which of the following is an identity

a) $(a+b)^2 = a^2 + b^2$

b) $(a+b) = a^2 + 2ab + b^2$

c) $(a-b)^2 = a^2 - b^2$

d) none of above

