

Maths 8

Chapter 5: Algebraic Expressions and Identities - Worksheet

Section A: MCQs

1. Which is a binomial?

- (a) x
- (b) $x+y$
- (c) xyz
- (d) 6

2. The identity $(a+b)^2$ equals:

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

3. Coefficient of x in $7x + 5$ is:

- (a) 7
- (b) 5
- (c) 1
- (d) x

4. Which is an expression?

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

5. Degree of $5x^3$ is:

- (a) 1
- (b) 2
- (c) 3
- (d) 5

B: Fill in the Blanks

1. The number multiplying the variable is called its _____.
2. $(a-b)^2 = a^2 - 2ab + \underline{\hspace{2cm}}$.
3. The constant term in $4x + 7$ is _____.
4. $x \times x = \underline{\hspace{2cm}}$.
5. An expression with one term is called _____.

Section C: True/False

1. $2x + 3x = 5x$. (True/False)
2. Degree of constant term is 1. (True/False)
3. $(a+b)^2$ is an identity. (True/False)
4. Terms with same variables and powers are like terms. (True/False)
5. $x^2 + x$ is a monomial. (True/False)