

# Foundations of Basic Algebra

Basic Algebra · Answer Key · 8 Questions

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1. What does the symbol 'x' commonly represent in algebraic expressions?

- A) A specific numerical value
- B) A variable**
- C) A mathematical constant
- D) A logical operator

2. In the equation  $2 + y = 5$ , what is the value of 'y' that makes the equation true?

- A) 1
- B) 2
- C) 3**
- D) 4

3. What is the term for a mathematical statement that asserts the equality of two expressions?

- A) Inequality
- B) Expression
- C) Equation**
- D) Formula

4. Which property states that the order of addition does not change the sum (e.g.,  $a + b = b + a$ )?

- A) Associative Property
- B) Distributive Property
- C) Commutative Property**
- D) Identity Property

5. If  $a = 3$  and  $b = 2$ , what is the value of  $a + b$ ?

- A) 4
- B) 5**
- C) 6
- D) 7

6. What is the result of simplifying the expression  $3x + 2x$ ?

- A) 5x**
- B) 6x
- C) 2x
- D) 3x

7. In algebra, a number that does not change its value is called a:

- A) Variable
- B) Constant**
- C) Coefficient
- D) Term

8. Which operation is the inverse of addition?

- A) Multiplication
- B) Division
- C) Subtraction**
- D) Exponentiation