

Fundamentals of Basic Algebra

Mathematics · Answer Key · 12 Questions

1. In the expression $5x$, what is the number '5' called?

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

2. What does the symbol '=' represent in an algebraic equation?

- A) Equality**
- B) Inequality
- C) Approximation
- D) Division

3. In the expression x^2 , what is the number '2' called?

- A) Base
- B) Coefficient
- C) Exponent**
- D) Factor

4. Which operation is indicated by the symbol '4y'?

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

5. What is a letter that represents an unknown number in algebra called?

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

6. Which of the following is considered a constant?

- A) x
- B) y
- C) 7**
- D) z

7. What is the first step in solving for x in the equation $x + 3 = 10$?

A) Add 3 to both sides

B) Subtract 3 from both sides

C) Multiply by 10

D) Divide by 3

8. What is the value of $2x$ when $x = 5$?

A) 7

B) 25

C) 10

D) 3

9. In algebra, what do we call a mathematical statement that two expressions are equal?

A) Variable

B) Equation

C) Expression

D) Operation

10. What is the result of $x + x$?

A) x^2

B) $2x$

C) x

D) $x+x$

11. Which operation is the inverse of addition?

A) Multiplication

B) Division

C) Subtraction

D) Exponentiation

12. What is the value of x in the equation $2x = 8$?

A) 4

B) 6

C) 10

D) 16