Middle School Algebra Essentials

Algebra · Answer Key · 10 Questions

1. Which property states that a(b + c) = ab + ac?

A) Associative property
B) Distributive property
C) Commutative property
D) Identity property

2. What is the value of 3x + 5 when x = 4?

A) 12
B) 15
C) 17
D) 20

3. If 2x - 7 = 9, what is the value of x?

A) 8
B) 16
C) 1
D) 4

4. Which term describes the number multiplied by a variable, such as the 5 in 5x?

A) Exponent
B) Constant
C) Coefficient
D) Equation

5. What is the simplified form of 4x + 3y + 2x - y?

A) 6x + 2y
B) 6x + 4y
C) 2x + 2y
D) 6x + 3y

6. In the expression 2x^2 + 5, what is the exponent?

A) 2
B) 5
C) x
D) 2x

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7. Which of the following is a linear equation?

A) y = x^2 + 1
B) y = 3/x
C) y = 2x - 5
D) y = x^3

8. Solve for y if y/4 = 3.

A) 12
B) 7
C) 0.75
D) 1

9. What is the result of combining like terms in 7a + 2b - 3a + 5b?

A) 4a + 3b
B) 4a + 7b
C) 10a + 7b
D) 4a - 3b

10. Identify the constant in the expression 9x - 12.

A) 9
B) x
C) -12
D) 12

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