Elementary Algebra Fundamentals

Mathematics · Practice Test · 15 Questions

1. In the equation 5 + x = 12, what is the value of x?

A) 7
B) 17
C) 60
D) 2

2. What is the term for a letter that stands for an unknown number in an algebraic expression?

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

3. If 3y = 15, what is the value of y?

A) 5
B) 12
C) 45
D) 18

4. Which operation is represented by 4n?

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

5. In the expression 7a - 2, what is the constant?

A) 7
B) a
C) -2
D) 14

6. Solve for b: b - 8 = 12.

A) 4
B) 20
C) 96
D) -4

7. What is the solution to x / 4 = 3?

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

8. Which of these represents 'six more than a number'?

A) 6 - n
B) 6n
C) n + 6
D) n / 6

9. What is the coefficient in the expression 9k + 4?

A) k
B) 4
C) 9
D) 13

10. If m = 10, what is the value of 2m + 5?

A) 25
B) 17
C) 70
D) 15

11. An equation must always contain which symbol to show that two sides are equal?

A) +
B) -
C) *
D) =

12. Evaluate 3(x + 2) when x = 4.

A) 14
B) 18
C) 10
D) 24

13. What is the result of 15 - d = 7?

A) 22
B) 8
C) 7
D) 5

14. Which number makes the equation 20 = 4 * p true?

A) 16
B) 24
C) 5
D) 80

15. If a box contains 3 packs of cards and 2 loose cards, how do you represent this as an expression (let p be the number of cards in a pack)?

A) 3 + 2p
B) 3p + 2
C) p + 5
D) 5p