

Elementary Algebra Fundamentals

Mathematics · Answer Key · 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) $5p$