

Algebra Basics for Young Learners

Algebra · Practice Test · 23 Questions

1. In algebra, what do we call a symbol, usually a letter, that represents an unknown number?

- A) Number
- B) Constant
- C) Variable
- D) Operation

2. What is the value of 'x' in the equation $x + 5 = 12$?

- A) 6
- B) 7
- C) 8
- D) 17

3. If you have 'y' apples and someone gives you 3 more, how many apples do you have in total?

- A) $y - 3$
- B) $3y$
- C) $y + 3$
- D) $y / 3$

4. Which of these is an algebraic expression?

- A) $5 + 2 = 7$
- B) $x - 4$
- C) Greater than
- D) Add

5. What does the letter 'b' represent in the expression $2b$?

- A) The number 2
- B) The operation of multiplication
- C) An unknown number
- D) The sum of the numbers

6. Solve for 'k': $k - 9 = 3$.

- A) 6
- B) 12
- C) 27
- D) 3

7. If 'm' represents the number of minutes, what does 10m represent?

- A) 10 minutes added together
- B) 10 minutes divided
- C) 10 groups of minutes
- D) 10 minutes minus

8. Which operation is shown in the expression '3n'?

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

9. What is the value of 'p' in the equation $4p = 20$?

- A) 4
- B) 5
- C) 16
- D) 24

10. An algebraic equation always has which symbol?

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

11. If 'c' is the cost of one candy bar, what is the cost of 7 candy bars?

- A) $c + 7$
- B) $7 - c$
- C) $c / 7$
- D) $7c$

12. What is a 'constant' in algebra?

- A) A symbol that changes its value
- B) A number that stays the same
- C) A letter representing a mystery
- D) An operation symbol

13. Solve for 'z': $z / 2 = 6$.

- A) 3
- B) 4
- C) 8
- D) 12

14. If you start with 'n' stickers and give away 4, how many do you have left?

- A) $n + 4$
- B) $4n$
- C) $n - 4$
- D) $4 - n$

15. What is the term for a part of an algebraic expression, separated by '+' or '-' signs?

- A) Variable
- B) Equation
- C) Term
- D) Constant

16. If the letter 'a' represents the number of apples, what does $5a - 2$ mean?

- A) 5 times the number of apples minus 2
- B) 5 apples plus 2
- C) 2 less than 5 apples
- D) 5 divided by apples, then subtract 2

17. Which of these is a simple equation?

- A) $x + 7$
- B) $3y = 15$
- C) $10 - 2$
- D) z

18. What is the value of 'x' in the equation $x - 3 = 7$?

- A) 3
- B) 4
- C) 10
- D) 21

19. If 's' represents the number of sides on a shape, what does $3s$ represent for a triangle?

- A) The area of the triangle
- B) Three times the number of sides
- C) The perimeter of the triangle
- D) The number of vertices

20. In the expression $8 + y$, what does 'y' represent?

- A) The number 8
- B) The operation of addition
- C) An unknown number
- D) The result of the addition

21. What is the result when you simplify the expression $2x + 3x$?

- A) 5
- B) $2 \times 3x$
- C) $6x$
- D) $5x$

22. If $a=4$, what is the value of $a + 6$?

- A) 4
- B) 6
- C) 10
- D) 24

23. Solve for 'n': $3n = 18$.

- A) 3
- B) 6
- C) 15
- D) 54