

# Algebra Basics for Young Learners

Algebra · Answer Key · 23 Questions

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**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