

Algebra Fundamentals for Pre-Teens

Algebra · Answer Key · 25 Questions

1. In the algebraic expression $3x + 5$, what is the term 'x' called?

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

2. Which mathematical operation is represented when a number is placed directly next to a variable, such as $4y$?

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

3. In the expression $7n - 2$, what is the number 2 known as?

- A) Constant**
- B) Variable
- C) Exponent
- D) Coefficient

4. If $2x = 10$, what is the value of x?

- A) 2
- B) 4
- C) 5**
- D) 20

5. What is the first step in solving for x in the equation $x + 8 = 15$?

- A) Add 8 to both sides
- B) Subtract 8 from both sides**
- C) Multiply by 8
- D) Divide by 15

6. What does an equals sign (=) represent in an algebraic equation?

- A) The end of a problem
- B) A balanced relationship**
- C) A suggestion to add
- D) A variable definition

7. In the expression $5a$, what is the number 5 called?

- A) Sum
- B) Product
- C) Coefficient**
- D) Base

8. If $x - 4 = 10$, what is the value of x ?

- A) 6
- B) 14**
- C) 40
- D) 2.5

9. Which of these represents 'three times a number y '?

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

10. If $y/3 = 4$, what is the value of y ?

- A) 1
- B) 7
- C) 12**
- D) 64

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

- A) 11**
- B) 14
- C) 18
- D) 24

12. In algebra, what do we call a symbol (usually a letter) that stands for an unknown number?

- A) Constant
- B) Variable**
- C) Factor
- D) Integer

13. Which expression represents 'five less than a number n '?

- A) $5 - n$
- B) $n - 5$**
- C) $n / 5$
- D) $5n$

14. If $3x = 12$, what is the value of x ?

- A) 3
- B) 4**
- C) 9
- D) 36

15. What is the value of $10 - x$ when $x = 3$?

- A) 13
- B) 7**
- C) 30
- D) 2

16. How is 'the sum of x and 7' written algebraically?

- A) $7x$
- B) $x + 7$**
- C) $x - 7$
- D) $7 / x$

17. If $2x + 1 = 9$, what is the value of x ?

- A) 3
- B) 4**
- C) 5
- D) 8

18. What is the result of $4x$ when $x = 5$?

- A) 9
- B) 20**
- C) 1
- D) 45

19. Which of the following is an example of an algebraic equation?

- A) $5 + 2$
- B) $x + 3 = 10$**
- C) $4y$
- D) $8 > 2$

20. If $a = 2$ and $b = 3$, what is the value of $a + b$?

- A) 5**
- B) 6
- C) 23
- D) 1

21. What is the value of $3x - 2$ when $x = 5$?

- A) 10
- B) 13**
- C) 15
- D) 17

22. If $x / 2 = 5$, what is the value of x ?

- A) 2.5
- B) 7
- C) 10**
- D) 20

23. In the expression $4x + 9$, what is the coefficient?

- A) 4**
- B) x
- C) 9
- D) 13

24. If $6 = x - 2$, what is the value of x ?

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

25. What does the term 'evaluate' mean in algebra?

- A) To simplify the equation
- B) To find the numerical value**
- C) To write a new equation
- D) To guess the variable