

Grade 7 Basic Algebra Fundamentals

Mathematics · Answer Key · 14 Questions

1. What is a letter used to represent an unknown number in an algebraic expression called?

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

2. Evaluate the expression $3x + 7$ when $x = 4$.

- A) 10
- B) 12
- C) 19**
- D) 28

3. Which of the following is an algebraic expression?

- A) $5 + 3 = 8$
- B) $2x - 1$**
- C) $y = 4$
- D) $x < 10$

4. Solve for 'a' in the equation: $a + 9 = 15$.

- A) 5
- B) 6**
- C) 7
- D) 8

5. Solve for 'b' in the equation: $b - 6 = 11$.

- A) 4
- B) 5
- C) 17**
- D) 18

6. Solve for 'c' in the equation: $5c = 30$.

- A) 5
- B) 6**
- C) 7
- D) 8

7. Solve for 'd' in the equation: $d / 4 = 8$.

- A) 2
- B) 12
- C) 16
- D) 32**

8. Which phrase represents the expression ' $n - 5$ '?

- A) 5 less than n**
- B) n less than 5
- C) n plus 5
- D) n times 5

9. Combine like terms: $4y + 8 - 2y + 3$.

- A) $6y + 11$
- B) $2y + 11$**
- C) $6y + 5$
- D) $2y + 5$

10. If 'x' represents a number, how would you write 'twice a number increased by 3'?

- A) $x + 2 + 3$
- B) $2x + 3$**
- C) $2(x + 3)$
- D) $x / 2 + 3$

11. What is the coefficient in the term $7k$?

- A) k
- B) 7**
- C) $7k$
- D) 1

12. Which of these is a constant in the expression $3x + 5y - 2$?

- A) 3
- B) x
- C) 5
- D) 2**

13. If $p = 5$ and $q = 2$, what is the value of $p * q + p$?

- A) 7
- B) 10
- C) 12**
- D) 15

14. Which symbol represents 'is greater than or equal to'?

A) $<$

B) $>$

C) $<=$

D) $>=$