

Introduction to Algebraic Thinking

Algebra · Answer Key · 10 Questions

1. If $3 + ? = 5$, what is the missing number?

- A) 1
- B) 2**
- C) 3
- D) 4

2. Which of these is a repeating pattern?

- A) Red, Blue, Red, Blue**
- B) Red, Blue, Green, Yellow
- C) Circle, Square, Triangle, Star
- D) 1, 2, 4, 8

3. What comes next in the pattern: 2, 4, 6, 8, ?

- A) 9
- B) 10**
- C) 11
- D) 12

4. If a balance scale has 5 cubes on one side and 2 cubes on the other, how many more cubes are needed on the right to make it equal?

- A) 2
- B) 3**
- C) 4
- D) 5

5. Find the missing number in this sequence: 10, 20, 30, ?, 50.

- A) 35
- B) 40**
- C) 45
- D) 60

6. Which symbol is used in math to show two amounts are equal?

- A) +
- B) -
- C) =**
- D) ×

7. If $7 - ? = 4$, what is the missing number?

- A) 2
- B) 3**
- C) 4
- D) 5

8. What is the rule for this pattern: 5, 10, 15, 20?

- A) Add 2
- B) Add 5**
- C) Subtract 5
- D) Add 10

9. In the equation $4 + 4 = 8$, what does the number 8 represent?

- A) The sum**
- B) The difference
- C) The missing part
- D) The remainder

10. If a pattern goes: Star, Moon, Star, Moon, what shape comes after the Moon?

- A) Square
- B) Circle
- C) Star**
- D) Triangle