



Patterns and Input/Output Tables

Name: _____

Date: _____

Grade: Grade 4

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: In the Grade 4 pattern square, circle, square, circle, the next shape is circle.

Rewrite: _____

2. Fix the sentence: The Grade 4 sequence 1, 4, 9, 16 has a function rule of add 3 each time.

Rewrite: _____

3. Fix the sentence: In the Grade 4 sequence 2, 4, 6, 8, the next term is 9.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In the Grade 4 shape pattern triangle, square, triangle, square, the next shape is _____.
2. The Grade 4 growing sequence 1, 4, 9, 16 lists square numbers, so the next term is _____.
3. In the Grade 4 sequence 5, 10, 15, 20, the function rule adds _____ each time.
4. In the Grade 4 pattern star, moon, star, moon, star, the sixth shape is _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Describe the function rule for the Grade 4 sequence 3, 6, 9, 12 and give the next term.

2. In the Grade 4 pattern circle, circle, square, circle, circle, square, what is the seventh shape?

Answer Key · Patterns and Input/Output Tables · Grade: Grade 4

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: In the Grade 4 pattern square, circle, square, circle, the next shape is circle.

Rewrite: In the Grade 4 pattern square, circle, square, circle, the next shape is square.

2. Fix the sentence: The Grade 4 sequence 1, 4, 9, 16 has a function rule of add 3 each time.

Rewrite: The Grade 4 sequence 1, 4, 9, 16 has a function rule based on square numbers.

3. Fix the sentence: In the Grade 4 sequence 2, 4, 6, 8, the next term is 9.

Rewrite: In the Grade 4 sequence 2, 4, 6, 8, the next term is 10.

Part B: Fill in the Blank

Write the missing word or number on each line.

- In the Grade 4 shape pattern triangle, square, triangle, square, the next shape is triangle.
- The Grade 4 growing sequence 1, 4, 9, 16 lists square numbers, so the next term is 25.
- In the Grade 4 sequence 5, 10, 15, 20, the function rule adds 5 each time.
- In the Grade 4 pattern star, moon, star, moon, star, the sixth shape is moon.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Describe the function rule for the Grade 4 sequence 3, 6, 9, 12 and give the next term.

The rule adds 3 each time, so the next term in the Grade 4 sequence is 15.

2. In the Grade 4 pattern circle, circle, square, circle, circle, square, what is the seventh shape?

The seventh shape is circle because the unit circle, circle, square repeats every three terms.
