



# 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: The pattern 3, 6, 9, 12 follows the rule add 2.

Rewrite: \_\_\_\_\_

2. Fix the sentence: The next term in 20, 17, 14, 11 is 9.

Rewrite: \_\_\_\_\_

3. Fix the sentence: In 5, 10, 15, 20 the rule is multiply by 2.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

- The pattern 4, 8, 12, 16 follows the rule add \_\_\_\_\_ each step.
- The next term after 7, 14, 21, 28 is \_\_\_\_\_.
- In the pattern 30, 25, 20, 15 the rule is subtract \_\_\_\_\_.
- The missing term in 9, 18, \_\_\_\_\_, 36 is 27.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. Describe the rule for the Grade 4 pattern 6, 12, 18, 24 and give the next term.

\_\_\_\_\_  
\_\_\_\_\_

2. Explain how to find the rule of a decreasing pattern like 50, 45, 40, 35 in Grade 4.

\_\_\_\_\_  
\_\_\_\_\_

### Part A: Fix the Sentence

---

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

1. Fix the sentence: The pattern 3, 6, 9, 12 follows the rule add 2.

Rewrite: **The pattern 3, 6, 9, 12 follows the rule add 3.**

---

2. Fix the sentence: The next term in 20, 17, 14, 11 is 9.

Rewrite: **The next term in 20, 17, 14, 11 is 8.**

---

3. Fix the sentence: In 5, 10, 15, 20 the rule is multiply by 2.

Rewrite: **In 5, 10, 15, 20 the rule is add 5.**

---

### Part B: Fill in the Blank

---

Write the missing word or number on each line.

- The pattern 4, 8, 12, 16 follows the rule add 4 each step.
- The next term after 7, 14, 21, 28 is 35.
- In the pattern 30, 25, 20, 15 the rule is subtract 5.
- The missing term in 9, 18, 27, 36 is 27.

### Part C: Short Answer

---

Answer each question in one or two complete sentences.

1. Describe the rule for the Grade 4 pattern 6, 12, 18, 24 and give the next term.

*The rule is add 6 each time. Starting at 6 and adding 6 gives 12, 18, 24, and the next term is 30 because 24 plus 6 equals 30.*

---

---

2. Explain how to find the rule of a decreasing pattern like 50, 45, 40, 35 in Grade 4.

*Subtract one term from the previous term: 50 minus 45 is 5. Each term drops by 5, so the rule is subtract 5, and the next term after 35 is 30.*

---