



# Patterns and Input/Output Tables

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. If input 2 gives output 8 and input 3 gives output 12, the Grade 4 rule is multiply by \_\_\_\_\_ .
2. For inputs 1, 2, 3 the outputs are 8, 9, 10, so the Grade 4 rule is add \_\_\_\_\_ .
3. If input 5 maps to output 25 and input 6 maps to output 30, the rule is multiply by \_\_\_\_\_ .
4. For input 10 with output 2 and input 20 with output 4, the Grade 4 rule is divide by \_\_\_\_\_ .
5. Inputs 4, 5, 6 give outputs 12, 15, 18, so the Grade 4 rule is multiply by \_\_\_\_\_ .
6. If input 7 gives output 14 and input 9 gives output 18, the Grade 4 rule is multiply by \_\_\_\_\_ .
7. When input 12 gives output 6 and input 18 gives output 9, the rule is divide by \_\_\_\_\_ .
8. For inputs 0, 1, 2 with outputs 6, 7, 8, the Grade 4 rule is add \_\_\_\_\_ .
9. Inputs 3, 4, 5 produce outputs 21, 28, 35, so the Grade 4 rule is multiply by \_\_\_\_\_ .

## Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Input 4 with rule multiply by 6	→ _____	Output 24
Input 9 with rule add 11	→ _____	Output 20
Input 24 with rule divide by 8	→ _____	Output 3
Input 7 with rule multiply by 5	→ _____	Output 35

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

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### Part A: Fill in the Blank

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Write the missing word or number on each line.

1. If input 2 gives output 8 and input 3 gives output 12, the Grade 4 rule is multiply by 4 .
2. For inputs 1, 2, 3 the outputs are 8, 9, 10, so the Grade 4 rule is add 7 .
3. If input 5 maps to output 25 and input 6 maps to output 30, the rule is multiply by 5 .
4. For input 10 with output 2 and input 20 with output 4, the Grade 4 rule is divide by 5 .
5. Inputs 4, 5, 6 give outputs 12, 15, 18, so the Grade 4 rule is multiply by 3 .
6. If input 7 gives output 14 and input 9 gives output 18, the Grade 4 rule is multiply by 2 .
7. When input 12 gives output 6 and input 18 gives output 9, the rule is divide by 2 .
8. For inputs 0, 1, 2 with outputs 6, 7, 8, the Grade 4 rule is add 6 .
9. Inputs 3, 4, 5 produce outputs 21, 28, 35, so the Grade 4 rule is multiply by 7 .

### Part B: Matching

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Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Input 4 with rule multiply by 6	→ <u>Output 24</u>	Output 24
Input 9 with rule add 11	→ <u>Output 20</u>	Output 20
Input 24 with rule divide by 8	→ <u>Output 3</u>	Output 3
Input 7 with rule multiply by 5	→ <u>Output 35</u>	Output 35