



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

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

## Algebra 1 – Unit 2 – Inputs and Outputs (Hard)

1. Rule:  $3x + 5$ , Output: 20, Input: ?      6. Rule:  $2x + 3$ , Output: 19, Input: ?

2. Rule:  $2x + 9$ , Output: 21, Input: ?      7. Rule:  $2x + 3$ , Output: 29, Input: ?

3. Rule:  $2x + 8$ , Output: 30, Input: ?      8. Rule:  $4x + 6$ , Output: 14, Input: ?

4. Rule:  $4x + 9$ , Output: 33, Input: ?      9. Rule:  $2x + 10$ , Output: 16, Input: ?

5. Rule:  $2x + 9$ , Output: 39, Input: ?      10. Rule:  $3x + 4$ , Output: 31, Input: ?



# Algebra 1 – Unit 2 – Inputs and Outputs (Hard) – Answer Key

1. Rule:  $3x + 5$ , Output: 20, Input: ?

x = 5

6. Rule:  $2x + 3$ , Output: 19, Input: ?

x = 8

2. Rule:  $2x + 9$ , Output: 21, Input: ?

x = 6

7. Rule:  $2x + 3$ , Output: 29, Input: ?

x = 13

3. Rule:  $2x + 8$ , Output: 30, Input: ?

x = 11

8. Rule:  $4x + 6$ , Output: 14, Input: ?

x = 2

4. Rule:  $4x + 9$ , Output: 33, Input: ?

x = 6

9. Rule:  $2x + 10$ , Output: 16, Input: ?

x = 3

5. Rule:  $2x + 9$ , Output: 39, Input: ?

x = 15

10. Rule:  $3x + 4$ , Output: 31, Input: ?

x = 9