



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: ?

$$x = 9$$