



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

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

## Unit 2 – Inputs and Outputs

1. Input: 8, Rule: multiply by 3 then add 6, Output: ?
2. Input: 7, Rule: multiply by 4 then add 6, Output: ?
3. Input: 7, Rule: multiply by 3 then add 4, Output: ?
4. Input: 8, Rule: multiply by 3 then add 5, Output: ?
5. Input: 6, Rule: multiply by 4 then add 4, Output: ?
6. Input: 2, Rule: multiply by 3 then add 7, Output: ?
7. Input: 3, Rule: multiply by 4 then add 5, Output: ?
8. Input: 6, Rule: multiply by 3 then add 4, Output: ?
9. Input: 4, Rule: multiply by 5 then add 3, Output: ?
10. Input: 2, Rule: multiply by 4 then add 5, Output: ?



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## Unit 2 – Inputs and Outputs

11. Input: 5, Rule: multiply by 2 then add 5, Output: ?

12. Input: 8, Rule: multiply by 3 then add 6, Output: ?

13. Input: 5, Rule: multiply by 3 then add 5, Output: ?

14. Input: 8, Rule: multiply by 2 then add 2, Output: ?

15. Input: 7, Rule: multiply by 2 then add 4, Output: ?

16. Input: 5, Rule: multiply by 4 then add 1, Output: ?



## Unit 2 – Inputs and Outputs – Answer Key

1. Input: 8, Rule: multiply by 3 then add 6, Output: ?

$x = 30$

2. Input: 7, Rule: multiply by 4 then add 6, Output: ?

$x = 34$

3. Input: 7, Rule: multiply by 3 then add 4, Output: ?

$x = 25$

4. Input: 8, Rule: multiply by 3 then add 5, Output: ?

$x = 29$

5. Input: 6, Rule: multiply by 4 then add 4, Output: ?

$x = 28$

6. Input: 2, Rule: multiply by 3 then add 7, Output: ?

$x = 13$

7. Input: 3, Rule: multiply by 4 then add 5, Output: ?

$x = 17$

8. Input: 6, Rule: multiply by 3 then add 4, Output: ?

$x = 22$

9. Input: 4, Rule: multiply by 5 then add 3, Output: ?

$x = 23$

10. Input: 2, Rule: multiply by 4 then add 5, Output: ?

$x = 13$



## Unit 2 – Inputs and Outputs – Answer Key

11. Input: 5, Rule: multiply by 2 then add 5, Output: ?

**x = 15**

12. Input: 8, Rule: multiply by 3 then add 6, Output: ?

**x = 30**

13. Input: 5, Rule: multiply by 3 then add 5, Output: ?

**x = 20**

14. Input: 8, Rule: multiply by 2 then add 2, Output: ?

**x = 18**

15. Input: 7, Rule: multiply by 2 then add 4, Output: ?

**x = 18**

16. Input: 5, Rule: multiply by 4 then add 1, Output: ?

**x = 21**