



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: ?

$$x = 21$$