Name _____ Date _____

LESSON 1.7

Practice B

For use with the lesson "Represent Functions as Rules and Tables"

Complete the sentence.

1. The input variable is called the __?__ variable.
2. The output variable is called the __?__ variable.

Tell whether the pairing is a function.

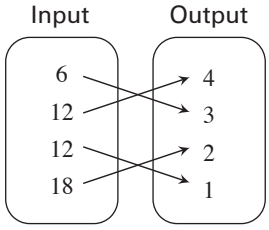
3.

Input	Output
1	15
3	20
5	15
7	20

4.

Input	Output
5	5
6	5
7	5
8	5

5.



Make a table for the function. Identify the range of the function.

6. $y = 4x - 2$

   Domain: 1, 2, 3, 4

7. $y = 0.1x + 3$

   Domain: 10, 20, 30, 40

8. $y = \frac{1}{2}x + 2$

   Domain: 6, 7, 8, 9

Write a rule for the function.

9.

Input, x	1	2	3	4
Output, y	5	10	15	20

10.

Input, x	10	11	12	13
Output, y	3	4	5	6

11. **Shoe Sizes** The table shows men's shoe sizes in the United States and Australia. Write a rule for the Australian size as a function of the United States' size.

U.S. size	5	6	7	8	9	10
Australian size	3	4	5	6	7	8

12. **Balloon Bunches** You are making balloon bunches to attach to tables for a charity event. You plan on using 8 balloons in each bunch. Write a rule for the total number of balloons used as a function of the number of bunches created. Identify the independent and dependent variables. How many balloons will you use if you make 10 bunches?

13. **Baking** A baker has baked 10 loaves of bread so far today and plans on baking 3 loaves more each hour for the rest of his shift. Write a rule for the total number of loaves baked as a function of the number of hours left in the baker's shift. Identify the independent and dependent variables. How many loaves will the baker make if he has 4 hours left in his shift?