**LESSON 1.6**

# Practice B

*For use with pages 35–41*

**Complete the sentence.**

1. The input variable is called the _____ variable.

2. The output variable is called the _____ variable.
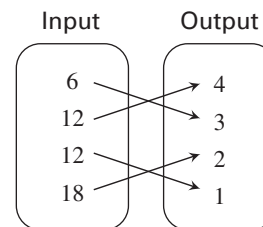
**Tell whether the pairing is a function.**

3.

| Input | Output |
|-------|--------|
| 1 | 15 |
| 3 | 20 |
| 5 | 15 |
| 7 | 20 |

4.

| Input | Output |
|-------|--------|
| 5 | 5 |
| 6 | 5 |
| 7 | 5 |
| 8 | 5 |

5.

| Input | Output |
|-------|--------|
| 6 | 4 |
| 12 | 3 |
| 12 | 2 |
| 18 | 1 |

**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

Name _____ Date _____

# Practice B *continued*
For use with pages 35–41

**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?