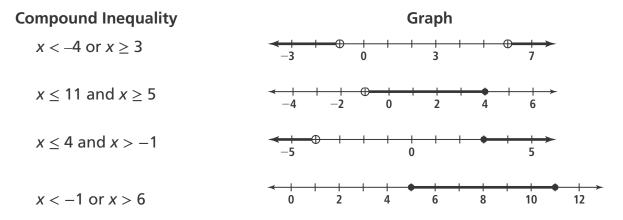
## **1-6** Reteach to Build Understanding

## Compound Inequalities

A solution of a compound inequality involving *and* includes any number that makes *both* inequalities true. A solution of a compound inequality involving *or* includes any number that makes *one or both* of the inequalities true.

1. Match the inequality with its graph.



Fill in the blanks to complete the inequality that represents each phrase.

**2.** All real numbers that are less than -3 or greater than or equal to 5.

*X* < \_\_\_\_\_ *X* ≥ \_\_\_\_\_

**3.** A certain recipe calls for a ham to bake between 30 minutes and 40 minutes, inclusive.

30 \_\_\_\_\_ 40

## Write true or false.

- **4.** -3 is a solution for the compound inequality  $b \le 4$  and b > -1.
- **5.** 3 is a solution for the compound inequality -3 < c < 2 \_\_\_\_\_\_
- **6.** Libby solved and graphed 5x + 6 > 16 or  $x 6 \le -9$ . Describe and correct the error Libby made graphing the solution to the compound inequality.

 $5x + 6 > 16 \qquad x - 6 \le -9$   $5x > 10 \qquad x \le -3$  x > 2 $4x - 3 - 2 - 1 \qquad 0 \qquad 1 \qquad 2 \qquad 3 \qquad 4$