

# Practice 2-10

## Solving One-Step Inequalities by Multiplying or Dividing

**Write an inequality for each sentence. Then solve the inequality.**

1. The product of  $k$  and  $-5$  is no more than 30.

\_\_\_\_\_

2. Half of  $p$  is at least  $-7$ .

\_\_\_\_\_

3. The product of  $k$  and 9 is no more than 18.

\_\_\_\_\_

4. One-third of  $p$  is at least  $-17$ .

\_\_\_\_\_

5. The opposite of  $g$  is at least  $-5$ .

\_\_\_\_\_

**Solve each inequality.**

6.  $-5x < 10$  \_\_\_\_\_

7.  $\frac{x}{4} > 1$  \_\_\_\_\_

8.  $-8 < -8x$  \_\_\_\_\_

9.  $\frac{1}{3}x > -2$  \_\_\_\_\_

10.  $48 \geq -12x$  \_\_\_\_\_

11.  $\frac{1}{3}x < -6$  \_\_\_\_\_

12.  $\frac{x}{5} < -4$  \_\_\_\_\_

13.  $-x \leq 2$  \_\_\_\_\_

**Determine whether each number is a solution of  $7 \geq -3k$ .**

14. 2 \_\_\_\_\_

15.  $-2$  \_\_\_\_\_

16. 0 \_\_\_\_\_

17.  $-3$  \_\_\_\_\_

**Justify each step.**

18.  $-5n \geq 45$

$\frac{-5n}{-5} \leq \frac{45}{-5}$  \_\_\_\_\_

$n \leq -9$  \_\_\_\_\_

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