

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. $-x \leq 2$ _____

Justify each step.

14. $-5n \geq 45$

$$\frac{-5n}{-5} \geq \frac{45}{-5}$$

$$n \leq -9$$
