

Name: _____



Solving Inequalities (One-Step)

Reminder: When solving inequalities, you have to reverse the direction of the inequality sign whenever you:

- Swap the positions of the left side of the inequality with the right side of the inequality.
Example: $4 < x \rightarrow x > 4$
- Multiply or divide both sides of the inequality by a **negative** number.
Example: $-2y \geq 8 \rightarrow y \leq -4$



Directions: Solve each inequality.

1.) $x + 7 > -14$

9.) $\frac{g}{4} > 11$

2.) $-8m \leq -56$

10.) $25x \leq -50$

3.) $-9 > x - 5$

11.) $\frac{c}{-8} \geq 8$

4.) $-6 + r \geq 8$

12.) $0 > 6p$

5.) $4 + v \leq -12$

13.) $\frac{c}{-2} \leq 10$

6.) $-10x \leq 100$

14.) $-3 \leq y - 4$

7.) $2 \geq 2m$

15.) $-12x > 84$

8.) $-a \leq 9$

16.) $-8x \leq -80$

ANSWER KEY

1.) $x + 7 > -14$

$x > -21$

2.) $-8m \leq -56$

$m \geq 7$

3.) $-9 > x - 5$

$x < -4$

4.) $-6 + r \geq 8$

$r \geq 14$

5.) $4 + v \leq -12$

$v \leq -16$

6.) $-10x \leq 100$

$x \geq -10$

7.) $2 \geq 2m$

$m \leq 1$

8.) $-a \leq 9$

$a \geq -9$

9.) $\frac{g}{4} > 11$

$g > 44$

10.) $25x \leq -50$

$x \leq -2$

11.) $\frac{c}{-8} \geq 8$

$x \leq -64$

12.) $0 > 6p$

$p < 0$

13.) $\frac{c}{-2} \leq 10$

$c \geq -20$

14.) $-3 \leq y - 4$

$y \geq 1$

15.) $-12x > 84$

$x < -7$

16.) $-8x \leq -80$

$x \geq 10$