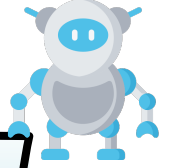


Name: _____



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.) $x + 6 > 10$

9.) $16 \geq y - 6$

2.) $5x \leq 35$

10.) $\frac{b}{3} > 4$

3.) $-12 > x - 3$

11.) $12x \leq -108$

4.) $-1 + y \geq 10$

12.) $15 + x < 0$

5.) $b - 7 < -13$

13.) $\frac{c}{-6} \geq 7$

6.) $-8x \leq -8$

14.) $32 \leq -16y$

7.) $0 > 13m$

15.) $\frac{x}{3} \geq 11$

8.) $-14a \leq -70$

16.) $-24 \leq -10 + y$

ANSWER KEY

1.) $x + 6 > 10$

$x > 4$

2.) $5x \leq 35$

$x \leq 7$

3.) $-12 > x - 3$

$x < -9$

4.) $-1 + y \geq 10$

$y \geq 11$

5.) $b - 7 < -13$

$b < -6$

6.) $-8x \leq -8$

$x \geq 1$

7.) $0 > 13m$

$m < 0$

8.) $-14a \leq -70$

$a \geq 5$

9.) $16 \geq y - 6$

$y \leq 22$

10.) $\frac{b}{3} > 4$

$b > 12$

11.) $12x \leq -108$

$x \leq 9$

12.) $15 + x < 0$

$x < -15$

13.) $\frac{c}{-6} \geq 7$

$c \leq -42$

14.) $32 \leq -16y$

$y \leq 32$

15.) $\frac{x}{3} \geq 11$

$x \geq 33$

16.) $-24 \leq -10 + y$

$y \geq 14$