

Solving 2-Step Inequalities

Warmup

1. Solve for x:

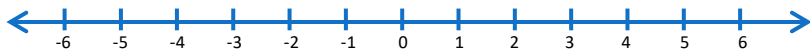
$$-3x + 10 = -5$$

2. Solve for a:

$$\frac{a}{5} + 11 = 15$$

3. Multiply $\frac{2}{3}$ and $\frac{6}{7}$ **4.** Solve for r, then graph the solution.

$$\frac{r}{5} \leq 0.4$$



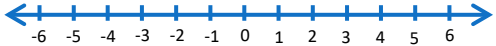
Solving 2-Step Inequalities

- I. Solve 2-Step Multiplication Inequalities
- II. Solve 2-Step Division Inequalities

I. Solve 2-Step Multiplication Inequalities

Solve and Graph:

$$7a + 2 < 23$$



To solve 2-Step Inequalities

1. Undo addition or subtraction
2. Undo Multiplication or Division
3. Use a test variable to check the answer.

5. Solve and Graph:

$$9T + 6 \geq 42$$



6.



II. Solve 2-Step Division Inequalities

Solve and Graph:

$$\frac{x}{2} - 2 > 3$$



To solve 2-Step Inequalities

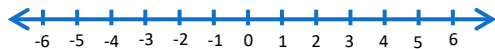
1. Undo addition or subtraction
2. Undo Multiplication or Division
3. Use a test variable to check the answer.

7. Solve and Graph:

$$\frac{Y}{8} - 5 \leq -4.625$$



8.









[illegible]