- Use same steps as if you were solving an equation
- If you divide both sides of the inequality by a negative number - reverse the inequality sign
- Graph the simplified inequality

Example

Solve and graph the solution $-2(4x+1) < 10$

$$-2(4x+1) < 10$$
$$-8x - 2 < 10$$
$$ +2 \phantom{<} +2$$
$$\overline{}$$
$$\frac{-8x}{-8} < \frac{12}{-8}$$
$$x > -\frac{12}{8} \quad \text{(inequality sign reversed - divided both sides by negative number)}$$

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

$-\frac{3}{2} \quad 0$