

9/27/18 Be able to solve inequalities with multiplying and dividing 24

When you multiply or divide by a negative number, you need to flip the inequality symbol.

$$\begin{array}{l} -2x < 8 \\ \hline -2 \quad -2 \\ \hline x > -4 \end{array}$$

check

$$\begin{array}{l} -2(0) < 8 \\ 0 < 8 \end{array}$$

~~-3~~  $\frac{x}{-3} \geq -5 \cdot -3$

$$x \leq 15$$

check

$$\begin{array}{l} \boxed{0} \\ -3 \end{array} \geq -5$$
$$0 \geq -5$$

# Graphing

$\geq$  closed dot  
(solid)

$\leq$

$<$  open dot

$>$

