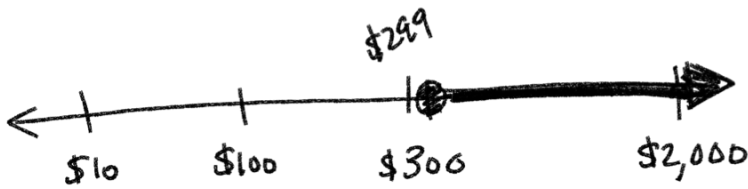


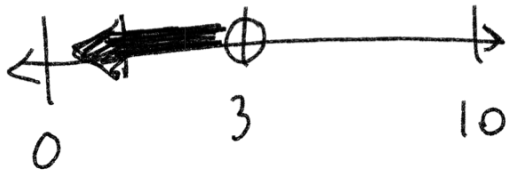
$$x \geq \$300$$



>
Greater than

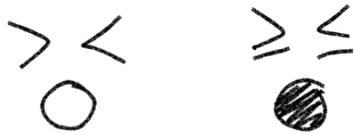
<
Less than

$$x < 3$$



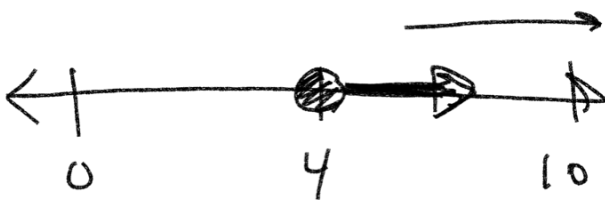
≥
Greater than or equal to

≤
Less than or equal to

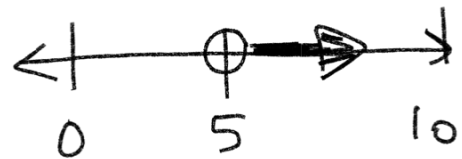


≧

$$x \geq 4$$



$$5 < x$$



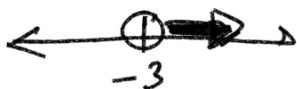
1.) $x \leq 7$



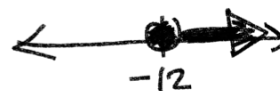
2.) $8 > x$



3.) $x > -3$



4.) $-12 \leq x$



$$\begin{array}{r} X + 3 = 8 \\ -3 \quad -3 \end{array}$$

$$X = 5$$

$$\begin{array}{r} X + 3 > 8 \\ -3 \quad -3 \end{array}$$

$$X > 5$$



$$\begin{array}{r} 12 \leq X - 4 \\ +4 \quad +4 \end{array}$$

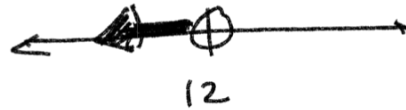
$$16 \leq X$$



$$\begin{array}{r} 16 \leq X \\ X \geq 16 \end{array}$$

$$3\left(\frac{X}{3}\right) < (4)3$$

$$X < 12$$



$$\begin{array}{r} -5x \geq 35 \\ \textcircled{-5} \downarrow \textcircled{-5} \end{array}$$

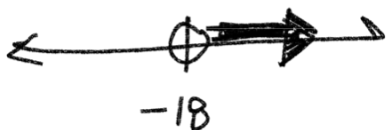
$$X \leq -7$$

*

Whenever you multiply or divide by a negative, you must flip the inequality.

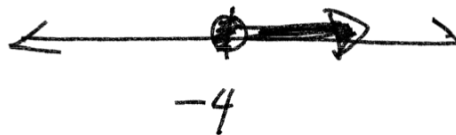
$$-6\left(\frac{X}{-6}\right) < (3)(-6)$$

$$X < -18$$



$$\begin{array}{r} 8x \geq -32 \\ \textcircled{8} \downarrow \textcircled{8} \end{array}$$

$$X \geq -4$$



$$1.) \quad \begin{array}{r} x - 8 \leq -3 \\ + 8 \quad + 8 \end{array}$$

$$x \leq 5$$



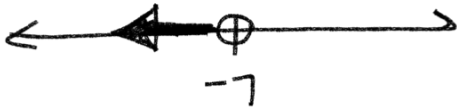
$$2.) \quad \begin{array}{r} 15 < x + 4 \\ -4 \quad -4 \end{array}$$

$$11 < x$$



$$3.) \quad \begin{array}{r} -6x > 42 \\ \underline{-6} \quad \underline{-6} \end{array}$$

$$x < -7$$



$$4.) \quad 9(-4) \leq \left(\frac{x}{9}\right) 9$$

$$-36 \leq x \rightarrow$$

$$x \geq -36$$

