

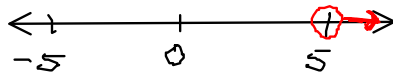
Solving Inequalities Using Multiplication or Division

>	"Greater Than"	Shade to the right, open circle
≥	"Greater Than or Equal To" / "At Least"	Shade to the right, closed circle
<	"Less Than"	Shade to the left, open circle
≤	"Less Than or Equal To" / "At Most"	Shade to the left, closed circle

Directions: Solve each inequality and graph the solution.

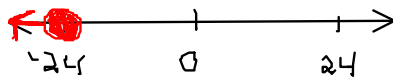
$$1. \quad \frac{3x}{3} > \frac{15}{3}$$

$$\boxed{x > 5}$$



$$2. \quad \frac{a}{6} \leq -4 \cdot 6$$

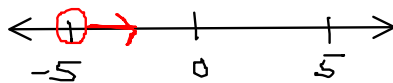
$$\boxed{a \leq -24}$$



$$3. \quad \frac{-55}{11} < \frac{11x}{11}$$

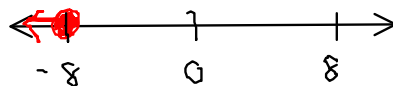
$$-5 < x$$

$$\boxed{x > -5}$$



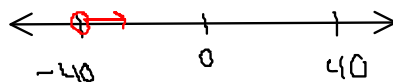
$$4. \quad \frac{-4y}{-4} \geq \frac{32}{-4}$$

$$\boxed{y \leq -8}$$



$$5. \quad \frac{m}{8} < 5$$

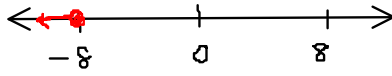
$$(-8) \cdot \frac{m}{-8} < 5(-8)$$



$$y \dots -$$

$$\underline{m > -40}$$

6. $1\frac{1}{2}h \leq -12$



$$\frac{3}{2}h \leq -12$$

$$\therefore \frac{3}{2} \quad \therefore \frac{2}{2}$$

$$h \leq -8$$

$$-12 \div \frac{3}{2} = \frac{-12}{1} \times \frac{2}{3} = \frac{-8}{1} = -8$$