

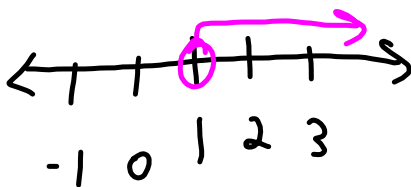
Chap 2 Sec 3
Softbook Pg 17

Solving Inequalities
Using Multiplication
or Division

* If you multiply or divide by a negative number the inequality sign changes the way it points.

$$1) \frac{8x}{8} > \frac{8}{8}$$

$$x > 1$$

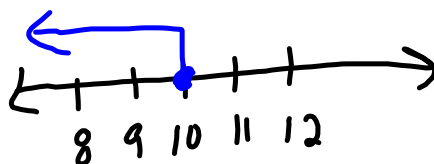


$$2) \cdot \frac{R}{5} \leq \cdot \frac{2}{1}$$

$$\therefore R \leq 10$$

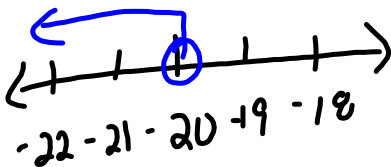
$$2) \left(\frac{R}{5} \right) \leq (2) 5$$

$$R \leq 10$$



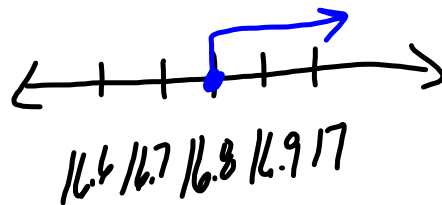
$$3) \frac{-32}{1.6} > \frac{1.6h}{1.6}$$

$$-20 > h$$



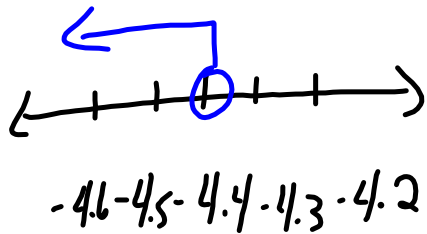
$$4) \frac{4}{8} > \frac{2.1}{1}$$

$$\therefore u \geq 16.8$$



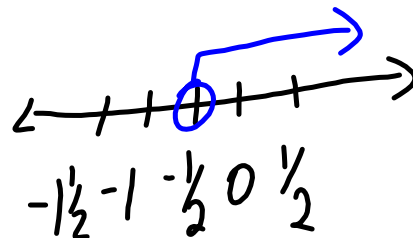
$$5) \frac{1.5j}{1.5} < \frac{-6.6}{1.5}$$

$$j < -4.4$$

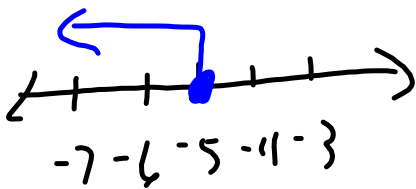


$$6) -\frac{3}{2} < \frac{2x}{3}$$

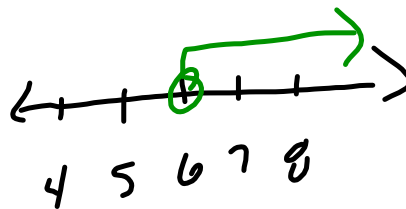
$$-\frac{1}{2} < x$$



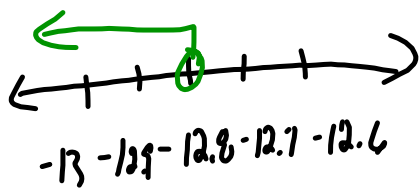
$$\begin{aligned} 7) \quad & \frac{-2p}{-2} \geq \frac{10}{-2} \\ & p \leq -5 \end{aligned}$$



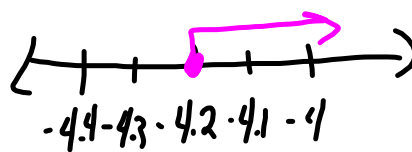
$$\begin{aligned} 8) \quad & -2 > \frac{y}{-3} \\ & \rightarrow 6 < y \end{aligned}$$



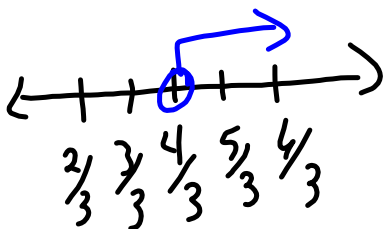
$$9) \underline{g} > 4$$
$$-3.2$$
$$g < -12.8$$



$$10) \frac{-y}{3} \leq 1.4$$
$$\frac{-y}{-1} \leq \frac{4.2}{-1}$$
$$y \geq -4.2$$



$$\begin{aligned} 11) \quad & -12 > -9h \\ & \frac{-12}{-9} > \frac{-9h}{-9} \\ & \frac{4}{3} < h \end{aligned}$$



$$\begin{aligned} 12) \quad & \frac{a}{-3.5} \leq -1.7 \\ & a \geq 5.95 \end{aligned}$$

