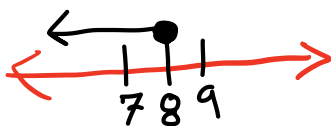


Name: Cora Jan 7 HW 17

①
$$\frac{-9x}{-9} \leq \frac{-72}{-9}$$
$$x \geq 8$$



TP:
 $-9(0) \leq -72$
yes $0 \leq -72$
solution:

$x \geq 8$

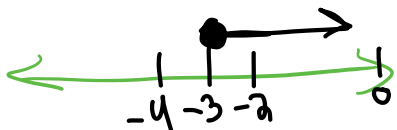
②
$$\frac{x}{3} > \frac{-3}{3}$$
$$x > -9$$



TP:
 $\frac{0}{3} > -3$
 $0 > -3$
yes
solution

$x > -9$

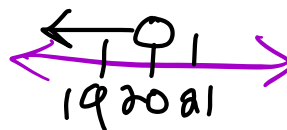
③
$$\frac{-24}{8} \leq \frac{8x}{8}$$
$$-3 \leq x$$



TP:
 $8(0) \geq -24$
yes $0 \geq -24$
solution

$-3 \leq x$

④
$$\frac{-10}{x-2} > \frac{x}{-2}$$
$$20 \neq x$$



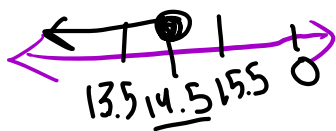
TP
 $\frac{-10}{2} < -10$
 $0 < -10$
no
soln:

$20 > x$

⑤
$$\begin{array}{r} x - 4.5 \geq 10 \\ + 4.5 \quad + 4.5 \\ \hline x \geq 14.5 \end{array}$$

TP:
 $0 - 4.5 \geq 10$
 $-4.5 \geq 10$
 (no)

solution

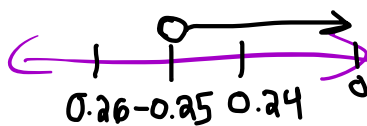


$14.5 \geq x$

⑥
$$\begin{array}{r} x + \frac{1}{2} < \frac{3}{4} - \frac{2}{4} \\ - \frac{1}{2} \quad - \frac{1}{2} \\ \hline x < -0.25 \end{array}$$

TP:
 $0 + \frac{1}{2} < \frac{3}{4} - \frac{2}{4}$
 $\frac{1}{2} < \frac{1}{4}$
 (no)

solution



$x > -0.25$

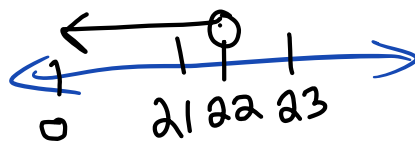
⑦ You make \$10 per hour.
 How many hours to make
 at least \$220?

let $h = \text{hours to make } \220

inequality:

$$\frac{10 \times h}{10} \geq \frac{220}{10}$$

$h = 22$



TP:

solution:

$10 \times 0 < 220$
 $0 < 220$

$h > 22$

Interpret: (y)

it will take 22 hours
 to get \$220.