

Date:
Bell ringer
Solve.

Sept 20

NO solution

$$1) 7x + 5 < 10(x - 7) - 3x$$

$$2) \left(\frac{3}{4}f + 24 \geq 4 - \frac{1}{9}f \right)^{20}$$
$$f \geq \frac{400}{19}$$

$$\begin{array}{r} 15f + 480 \geq 80 - 4f \\ \underline{+4f} \quad \underline{-480} \quad \underline{-480} \quad \underline{+4f} \\ 19f \geq -400 \end{array}$$

$$19f \geq -400$$

$$f \geq \frac{-400}{19}$$

Assignment

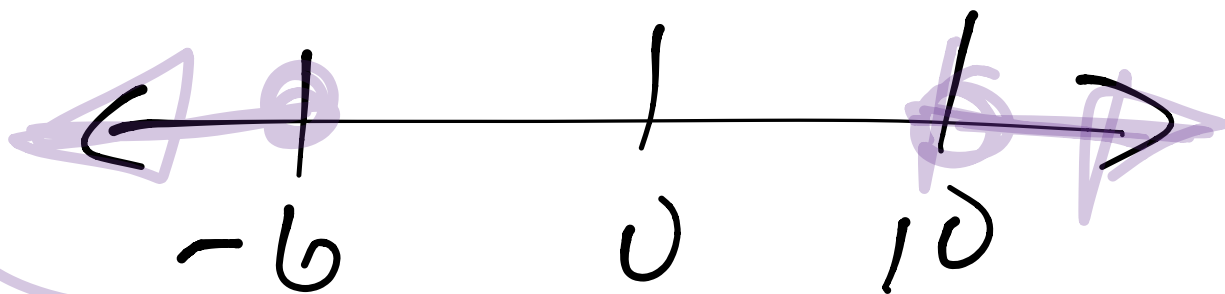
WS on compound
and absolute value
inequalities

$$6) |p - 2| \geq 8$$

$$p - 2 \geq 8 \quad \text{or} \quad p - 2 \leq -8$$

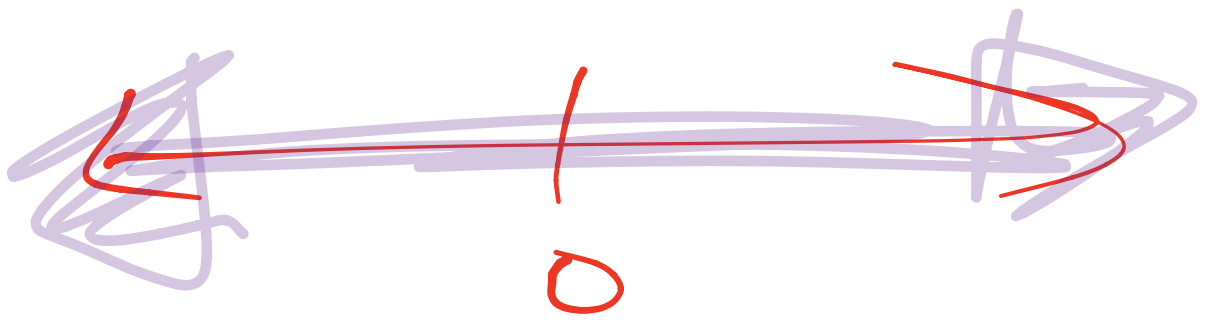
$\begin{array}{cc} +2 & +2 \end{array}$ $\begin{array}{cc} +2 & +2 \end{array}$

$$p \geq 10 \quad \text{OR} \quad p \leq -6$$



$$18) |5v + 3| > -9$$

all real # 5



$$10) |2c - 1| \leq 7$$

$$2c - 1 \leq 7 \quad \text{AND} \quad 2c - 1 \geq -7$$

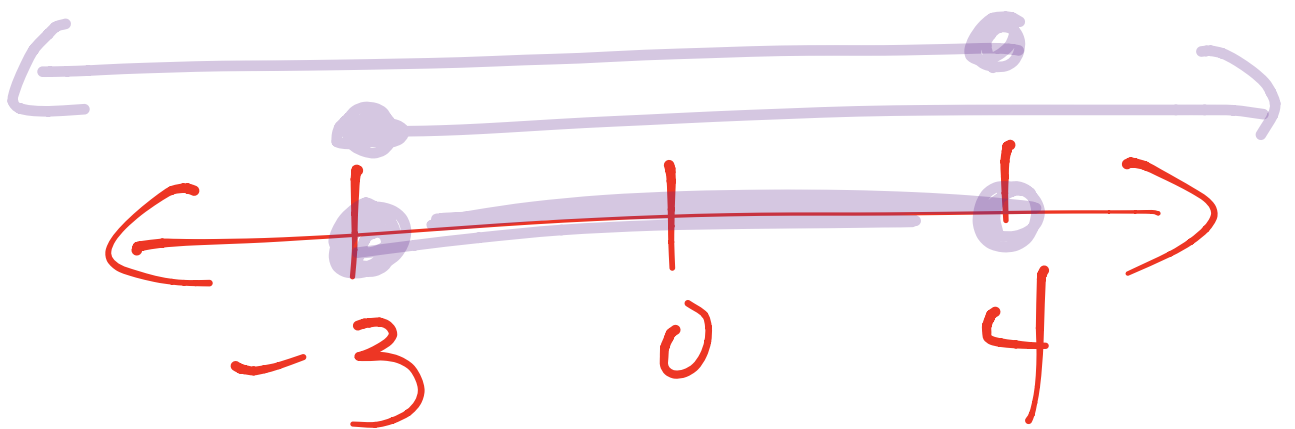
± 1 ± 1
 ± 1 ± 1

$$2c \leq 8$$

$$c \leq 4$$

$$2c \geq -6$$

$$c \geq -3$$



$$-3 \leq c \leq 4$$

$$22) |5t - 2| \leq 6$$

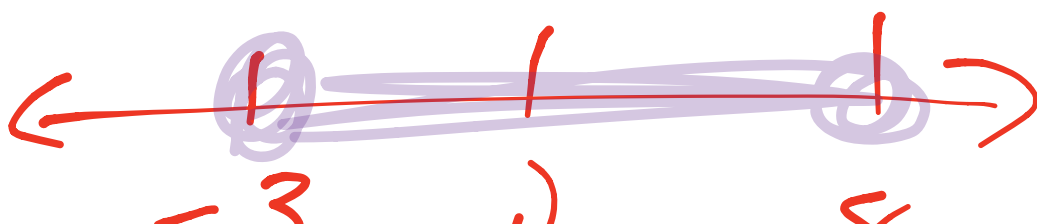
$$5t - 2 \leq 6 \quad \text{And} \quad 5t - 2 \geq -6$$

$$\begin{array}{r} +2 \quad +2 \\ \hline \end{array}$$

$$\begin{array}{r} 5t \leq 8 \\ t \leq \frac{8}{5} \end{array}$$

$$\begin{array}{r} +2 \quad +2 \\ \hline \end{array}$$

$$\begin{array}{r} 5t \geq -3 \\ t \geq -\frac{3}{5} \end{array}$$



$$-\frac{3}{5} \leq t \leq \frac{8}{5}$$

20)

$$2000 \leq x \leq 3000$$