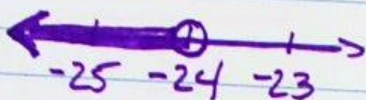


[1-5] Solving Inequalities ($<$, $>$, \leq , \geq)

IF you multiply or divide both sides by a negative #, switch the inequality.

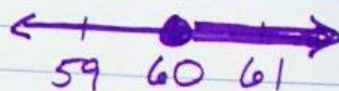
① $3 \cdot \frac{x}{3} < -8 \cdot 3$

$$x < -24$$



② $\frac{-5}{2} \cdot \frac{-2}{5} x \leq -24 \cdot \frac{-5}{2}$

$$x \geq 60$$



③ $5 \left(\frac{3}{5} x + 7 - 4x \right) \leq (-2)5$

multiply by the denominator

$$3x + 35 + 20x \leq -10$$

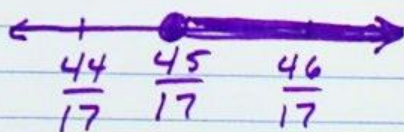
$$-17x + 35 \leq -10$$

$$\frac{-35}{-17} \quad \frac{-35}{-17}$$

$$-17x \leq -45$$

$$\frac{-17}{-17} \quad \frac{-17}{-17}$$

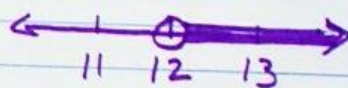
$$x \geq \frac{45}{17}$$



④ $\frac{-x}{-1} < \frac{-12}{-1}$

-x = -x

$$x > 12$$



⑤ $2x + 5 < 2x + 5$

$$\frac{-2x}{-2x} \quad \frac{-2x}{-2x}$$

$$5 < 5$$

No Solution

p 34 (#16-28) x 2
(#35-41) all
Graph Solutions!