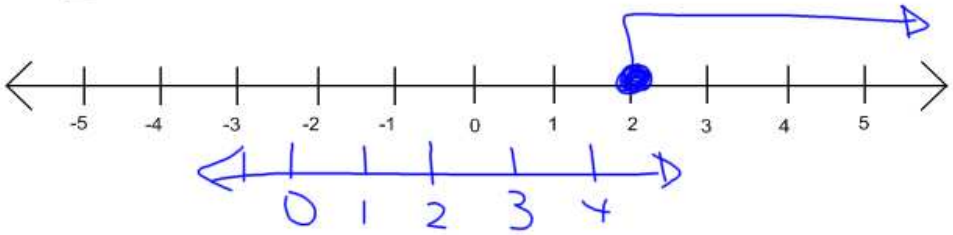
Day 5 - Solving Inequalities

Graphing Inequalities

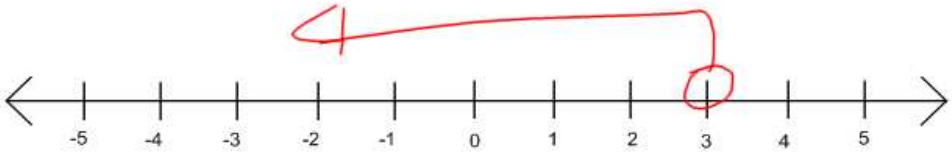
$x \geq 2$



$7 \geq t$

$t \leq 7$

$p < 3$

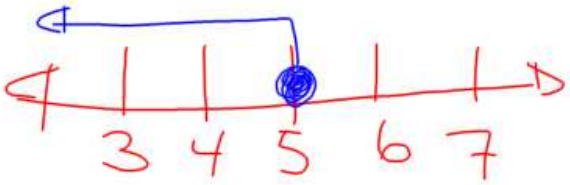


Solve and Graph the following

$8x \leq 40$

$\frac{8}{8} \quad \frac{8}{8}$

$x \leq 5$

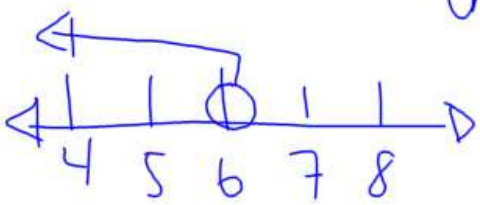


$-3t > -18$

$\frac{}{-3} \quad \frac{}{-3}$

$t < +6$

* When you mult. or divide by a negative value the direction of your inequality changes.

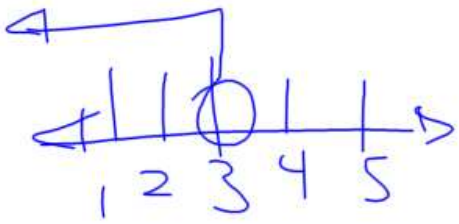


$4x + 2 < 3x + 5$

$-3x \quad -3x$

$x + 2 - 2 < 5 - 2$

$x < 3$



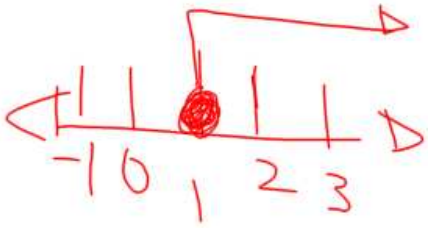
$4(2m - 1) \geq 7m - 3$

$8m - 4 \geq 7m - 3$

$-7m \quad +4 \qquad -7m \quad +4$

$m - 4 \geq -3$

$m \geq 1$



$$\frac{5x}{4} - 6 \leq 3x + 2$$

$\times 4$ $\times 4$ $\times 4$ $\times 4$

*remove the fractions.

$\frac{20x}{4} - 24 \leq 12x + 8$

$5x - 24 \leq 12x + 8$

$-5x \quad -5x$

$-24 \leq 7x + 8$

$-8 \quad -8$

$\frac{-32}{7} \leq \frac{7x}{7}$

$-4.57 \leq x$