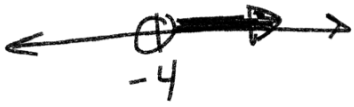
W-A1 Algebra 1 12/15

1.) $x \geq 3$

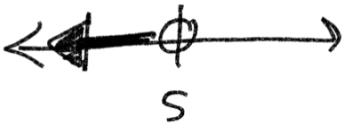
2.) $x > -4$

$-4 < x$



3.) $8 \geq x$

4.) $x < 5$



1.) $x + 4 > 9$

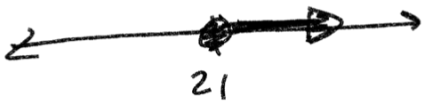
$-4 \quad -4$

$x > 5$

2.) $18 \leq x - 3$

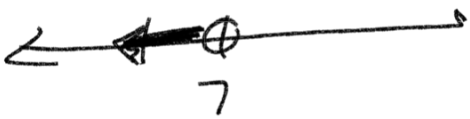
$+3 \quad +3$

$21 \leq x$



3.) $\frac{5x}{5} < \frac{35}{5}$

$x < 7$

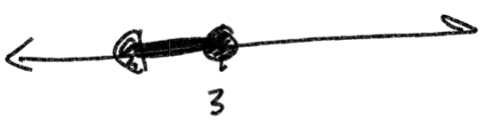


4.) $\frac{-2}{1}\left(\frac{x}{-2}\right) \geq (7)(-2)$

$x \leq -14$

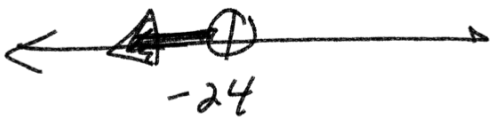
5.) $\frac{-9x}{-9} \geq \frac{-27}{-9}$

$x \leq 3$



6.) $4\left(\frac{x}{4}\right) < (-6)4$

$x < -24$



1.) $-21 \geq 4x - 2 + 5$

$-21 \geq 4x + 3$

$-3 \quad -3$

$\frac{-24}{4} \geq \frac{4x}{4}$

$-6 \geq x$

$x \leq -6$

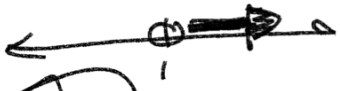
2.) $-7x + 5 - 3x < -5$

$-10x + 5 < -5$

$-5 \quad -5$

$\frac{-10x}{-10} < \frac{-10}{-10}$

$x > 1$



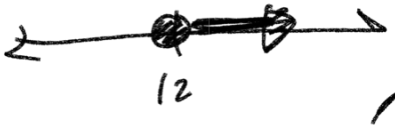
3.) $-4 + 3x \geq 2x + 8$

$-2x \quad -2x$

$-4 + x \geq 8$

$+4 \quad +4$

$x \geq 12$



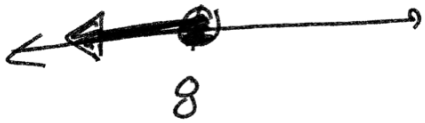
4.) $-3(4x+3) \geq -105$

$-12x - 9 \geq -105$

$+9 \quad +9$

$\frac{-12x}{-12} \geq \frac{-96}{-12}$

$x \leq 8$



5.) $-30 + 3x \leq 6(5x+6) + 6x$

$-30 + 3x \leq 30x + 36 + 6x$

$-30 + 3x \leq 36x + 36$

$-3x \quad -3x$

$-30 \leq 33x + 36$

$-36 \quad -36$

$\frac{-66}{33} \leq \frac{33x}{33}$

$-2 \leq x$