

40.

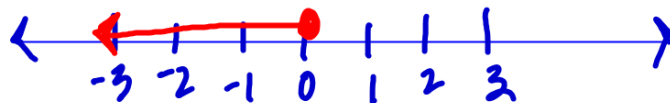
$$4x - 3 \geq 7x - 3$$

$$4x \geq 7x$$

$$0 \geq 3x$$

$$0 \geq x$$

$$x \leq 0$$



$$-\infty$$

$$\infty$$

$$22 > b$$

$$b < 22$$

At least 4 $x \geq 4$

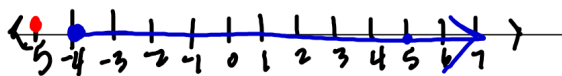
At most 9 $x \leq 9$

No more than 12 $x \leq 12$

Above 9 $x > 9$

Below 3 $x < 3$

Can not be 5 $x \neq 5$



$$-2(-5) \leq 8$$

NO $10 \leq 8$

$$\frac{-2x}{-2} \leq \frac{8}{-2}$$

$$\frac{-2x}{-2} = \frac{8}{-2}$$

$$-2(-3) \leq 8 \quad x \geq -4$$

$6 \leq 8$ yes

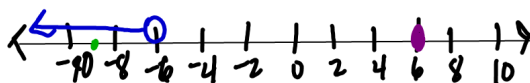
Reverse Inequality Sign

$$x = -4$$

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

$$x < -6$$

$$\begin{cases} 3 \cdot \frac{x}{3} = 2 \cdot 3 \\ x = 6 \end{cases}$$



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

$$x = 6$$

$$\frac{-6}{3} > 2$$

$$-2 > 2$$

No

$x = 9$

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

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

$$3 > 2$$

$$\frac{4x}{4} \leq \frac{-12}{4}$$

$$x \leq -3$$

$$-5x \leq -20$$

$$x \geq 4$$

$$\frac{-3}{2} \cdot \frac{-2}{3} x \geq \frac{8}{1} \cdot \frac{-3}{2}$$

$$x \leq -12$$

$$-2x + 8 \leq 14$$

$$\frac{-2x}{-2} \leq \frac{6}{-2}$$

$$x \geq -3$$

$$4a + 6 > 2a - 8$$

$$4a + 14 > 2a$$

$$\frac{14}{-2} > \frac{-2a}{-2}$$

$$-7 < a$$

$$a > -7$$

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$$20 - 68 \times 4$$