

HW: Worksheet

**Warm up:**

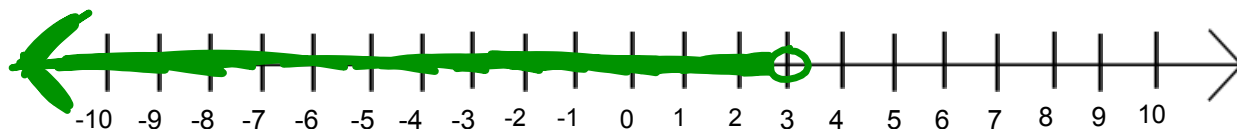
Write  $<$ ,  $>$ , or  $=$  to compare the two numbers.

1)  $5 \underline{>} 2$

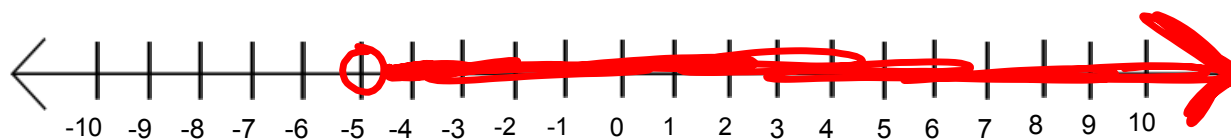
2)  $-7 \underline{<} 10$

3)  $3 \underline{>} -6$

$$x < 3$$



$$x > -5$$



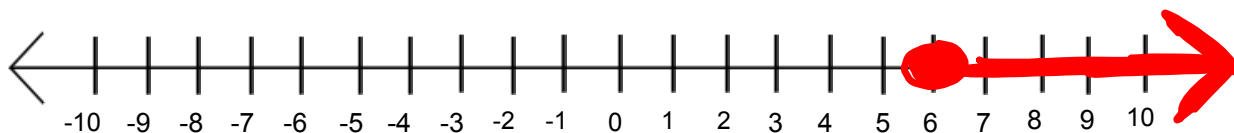
$\leq$

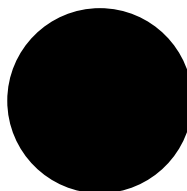
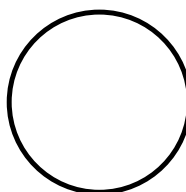
less than or equal to

$\geq$

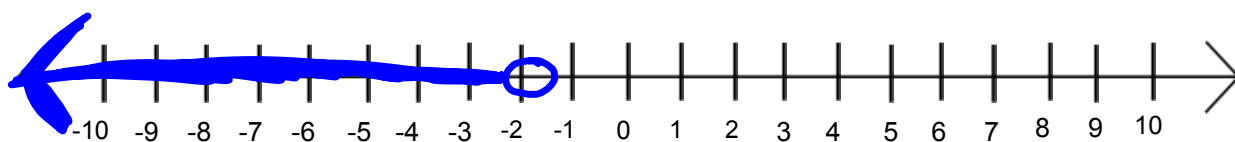
greater than or  
equal to

$$x \geq 6$$

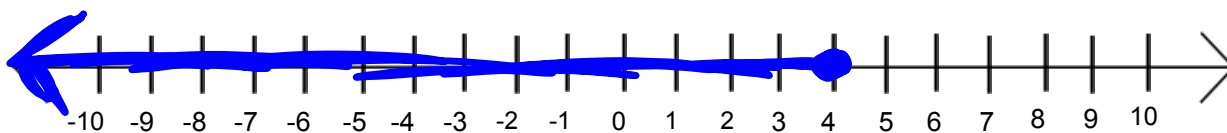




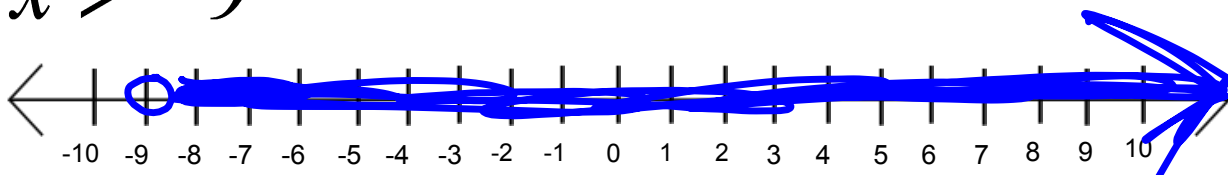
$$x < -2$$



$$x \leq 4$$



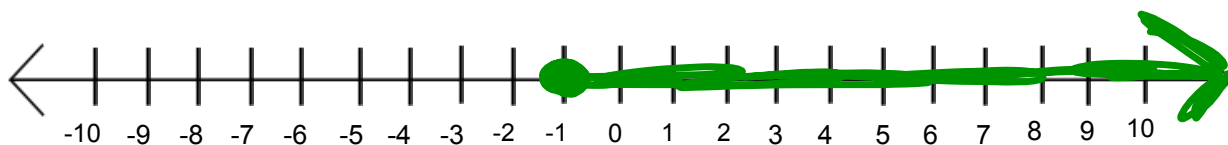
$$x > -9$$



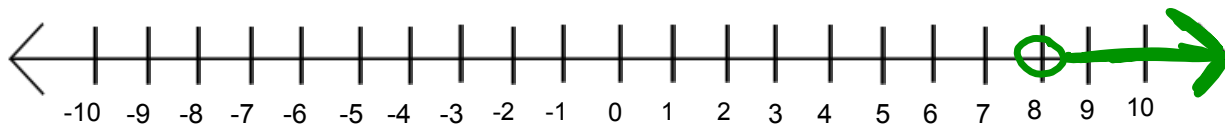
$$\begin{array}{r} -5 < 3 \\ +3 < +3 \\ \hline -2 < 6 \\ \hline -1 < 3 \\ +5 < +5 \\ \hline 4 < 8 \\ \times 3 < \times 3 \\ \hline 12 < 24 \end{array}$$

$$\begin{array}{r} x + 5 = 4 \\ -5 \quad -5 \\ \hline x = -1 \end{array}$$

$$\begin{array}{r} x + 5 \geq 4 \\ -5 \quad -5 \\ \hline x \geq -1 \end{array}$$

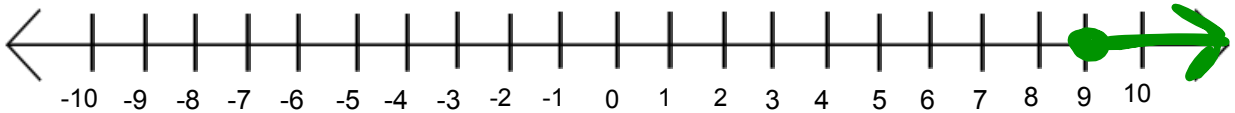


$$\begin{array}{r} 1 < x - 7 \\ + 7 \quad \quad + 7 \\ \hline 8 < x \\ x > 8 \end{array}$$





$$\begin{array}{r} 12 \leq 3 + x \\ -3 \quad -3 \\ \hline 9 \leq x \\ x \geq 9 \end{array}$$



$$1) x - 3 < 5$$

$$2) 7 + x \geq 10$$

$$3) x - 6 > -8$$

$$4) x + 5 \geq -2$$

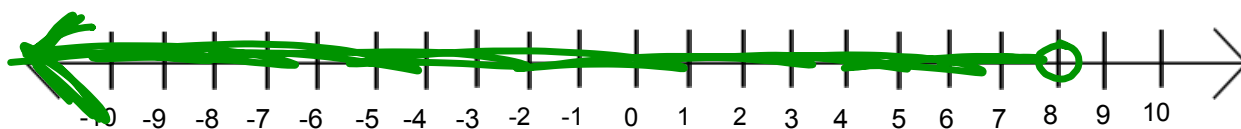
$$5) 5 \leq x + 5$$

$$6) -9 \geq -7 + x$$

$$1) x - 3 < 5$$
$$+3 \quad +3$$

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$$x < 8$$

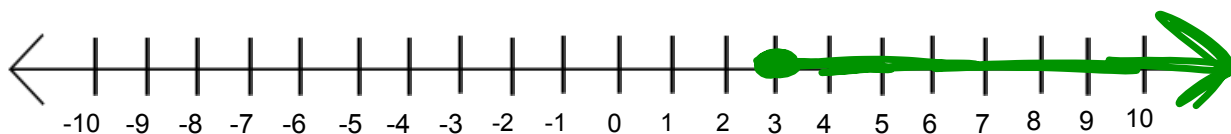


$$2) 7 + x \geq 10$$

$-7 \quad -7$

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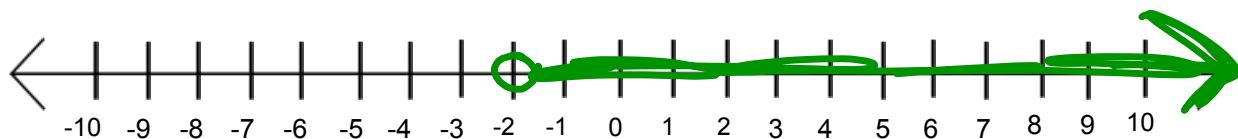
$$x \geq 3$$



$$3) x - 6 > -8$$

+6 +6

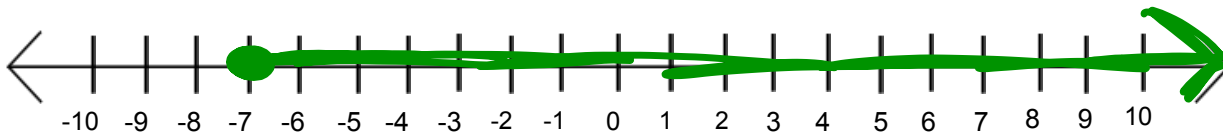
$$x > -2$$



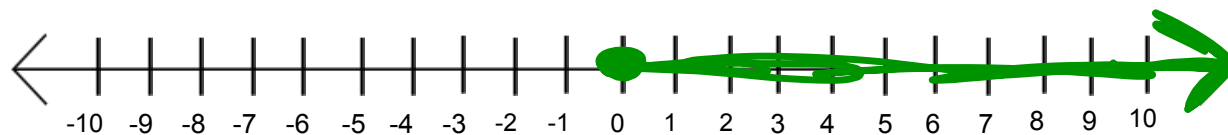
$$4) x + 5 \geq -2$$

$$-5 \quad -5$$

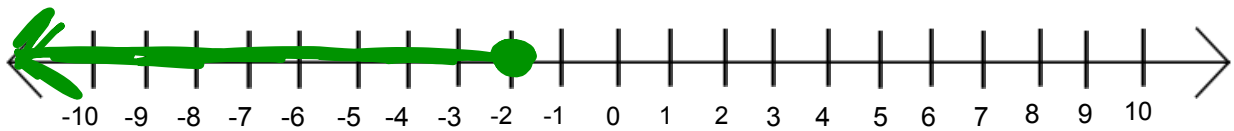
$$x \geq -7$$



$$\begin{array}{r} 5) 5 \leq x + 5 \\ -5 \quad -5 \\ \hline 0 \leq x \\ x \geq 0 \end{array}$$



$$\begin{aligned} 6) \quad & -9 \geq -7 + x \\ & \quad \quad \quad +7 \quad +7 \\ & \hline & -2 \geq x \\ & \textcircled{x \leq -2} \end{aligned}$$





January 13, 2022

