
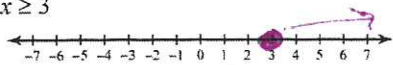
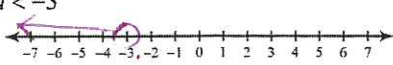
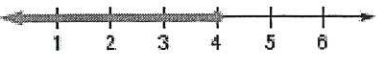



	Name:	Date:
	Topic/Objective: Solving one and two step inequalities	Class/Period:


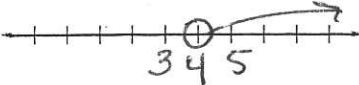
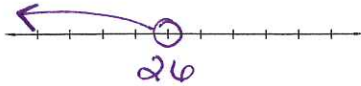
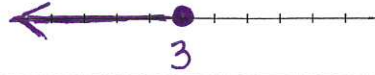
Questions/Main Ideas:	Notes:
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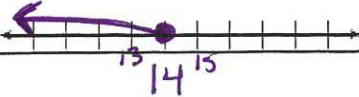
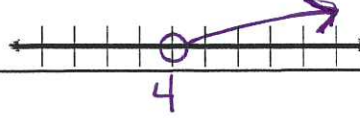


Definition Which one has the closed circle and open circle?	$>$ greater than $<$ less than \geq greater than or equal to \leq less than or equal to 
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A short review..... Graph the inequality	$x \geq 3$ 	$a < -3$ 
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Now write the inequality from the graph	$x \leq 4$ 	$x < 8$ 2. 
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Let's begin... How many steps were performed? 1 step	Solve the equation $\begin{array}{r} x + 9 = 12 \\ -9 \quad -9 \\ \hline x = 3 \end{array}$	Solve the inequality $\begin{array}{r} x + 9 < 12 \\ -9 \quad -9 \\ \hline x < 3 \end{array}$
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Solve and graph each inequality $3. \frac{x}{3} \geq 3 \cdot 3$ $x \geq 9$ 	1.) $x + 7 > 11$ $\begin{array}{r} x + 7 > 11 \\ -7 \quad -7 \\ \hline x > 4 \end{array}$  3.) $x - 9 < 17$ $\begin{array}{r} x - 9 < 17 \\ +9 \quad +9 \\ \hline x < 26 \end{array}$ 	2.) $\frac{3x}{3} \leq \frac{9}{3}$ $x \leq 3$ 
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<p>Next.....</p> <p>How many steps were performed?</p> <p>2 steps</p>	<p>Solve the equation $14x + 1 = 29$</p> $\begin{array}{r} -1 \quad -1 \\ \hline 14x = 28 \\ \hline 14 \quad 14 \\ \hline x = 2 \end{array}$	<p>Solve the inequality $14x + 1 \geq 29$</p> $\begin{array}{r} -1 \quad -1 \\ \hline 14x \geq 28 \\ \hline 14 \quad 14 \\ \hline x \geq 2 \end{array}$
<p>Solve and graph each inequality</p>	<p>1.) $2x - 5 \leq 23$</p> $\begin{array}{r} +5 \quad +5 \\ \hline 2x \leq 28 \\ \hline 2 \quad 2 \\ \hline x \leq 14 \end{array}$ 	<p>2.) $6x - 7 > 17$</p> $\begin{array}{r} +7 \quad +7 \\ \hline 6x > 24 \\ \hline 6 \quad 6 \\ \hline x > 4 \end{array}$ 
<p>Solve and graph each inequality</p>	<p>*WHEN YOU MULTIPLY OR DIVIDE BY A <u>NEGATIVE</u> NUMBER <u>FLIP</u> THE INEQUALITY*</p>	
<p>What is the difference between an equation and an inequality?</p>	<p>$3 - 2k < -17$</p>  $\begin{array}{r} -3 \quad -3 \\ \hline -2k < -20 \\ \hline -2 \quad -2 \\ \hline k > 10 \end{array}$	<p>$-3n + 5 > 23$</p>  $\begin{array}{r} -5 \quad -5 \\ \hline -3n > 18 \\ \hline -3 \quad -3 \\ \hline n < -6 \end{array}$
<p>An equation has an equal sign, and an inequality has less than, greater \leq, \geq symbols.</p>		
<p>Summary: 1 thing you learned:</p>		