
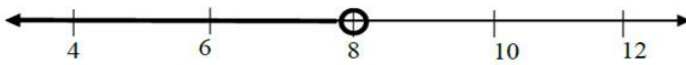
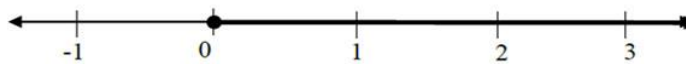


Unit 4 ∩ Equations and Inequalities Unit Guide2

SOL 6.13: The student will solve one step linear equations including practical problems.

SOL 6.14: a) The student will represent a practical situation with a linear inequality in one variable and b) solve one step linear equations in one variable involving addition or subtraction and graph the solution on a number line

	<u>Target Defined</u>	<u>Example of Target</u>	<u>Challenge A</u>	<u>Challenge B</u>	<u>Challenge C</u>		
Target 13	Graph inequalities.	<p>WRITE AN INEQUALITY:</p>  <p>CIRCLES: closed = included left point = < open = not included right point = ></p> <div style="border: 1px solid orange; padding: 2px; display: inline-block; margin: 10px;">n < 4</div>					
Target 14	Write inequality from a given graph.	 <p style="text-align: center; font-size: 1.5em;">$x < 8$</p>  <p style="text-align: center; font-size: 1.5em;">$x \geq 0$</p>					
Target 15	Write inequalities given a practical situation	Word problems involving inequalities.					
Target 16	Solve one-step inequalities.	<p>Solving one Step Inequalities</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;"> <p>Adding</p> $\begin{array}{r} n - 7 \leq 15 \\ +7 \quad +7 \\ \hline n \leq 22 \end{array}$ <p>Check: Pick a number in the solution set</p> <div style="border: 1px solid red; padding: 2px; font-size: 0.8em;">Any number less than or equal to 22 is in the solution set</div> $\begin{array}{r} 0 - 7 \leq 15 \\ -7 \leq 15 \end{array} \quad \checkmark$ </td> <td style="text-align: center; width: 50%;"> <p>Subtracting</p> $\begin{array}{r} n + 7 \leq 15 \\ -7 \quad -7 \\ \hline n \leq 8 \end{array}$ <p>Check: Pick a number in the solution set</p> <div style="border: 1px solid red; padding: 2px; font-size: 0.8em;">Any number less than or equal to 8 is in the solution set</div> $\begin{array}{r} 0 + 7 \leq 15 \\ 7 \leq 15 \end{array} \quad \checkmark$ </td> </tr> </table>	<p>Adding</p> $\begin{array}{r} n - 7 \leq 15 \\ +7 \quad +7 \\ \hline n \leq 22 \end{array}$ <p>Check: Pick a number in the solution set</p> <div style="border: 1px solid red; padding: 2px; font-size: 0.8em;">Any number less than or equal to 22 is in the solution set</div> $\begin{array}{r} 0 - 7 \leq 15 \\ -7 \leq 15 \end{array} \quad \checkmark$	<p>Subtracting</p> $\begin{array}{r} n + 7 \leq 15 \\ -7 \quad -7 \\ \hline n \leq 8 \end{array}$ <p>Check: Pick a number in the solution set</p> <div style="border: 1px solid red; padding: 2px; font-size: 0.8em;">Any number less than or equal to 8 is in the solution set</div> $\begin{array}{r} 0 + 7 \leq 15 \\ 7 \leq 15 \end{array} \quad \checkmark$			
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Quiz/Test Grades: