



Math 7: Expressions & Equations Unit Plan (Chapter 4)

Targets & Problems	Answer	Expert Initials
<p>I can write & graph an inequality.</p> <p>1. Graph $a > -3$ 2. Graph $r \leq 1.5$</p>  <p>2. Write an inequality for the graph:</p>  <p>3. Write an inequality to represent: A number w is greater than -3.</p>	<p>1. See left</p> <p>2. See left</p> <p>3.</p> <p>4.</p>	
<p>I can determine if a value is a solution to an inequality. Yes or no. Is the given value a solution?</p> <p>1. $5 + j > 8; j = 7$ 2. $4k < k; k = 3$</p>	<p>1.</p> <p>2.</p>	
<p>I can write and solve 1-step inequalities.</p> <p>1. $d + 12 < 19$ 2. $t - 4 \leq -14$ 3. $-8 > z + 6.4$</p> <p>4. A movie theater has a maximum capacity of 453 people. Ms. DeGraff <u>and</u> her 28 math students are going to watch a movie. Write and solve an inequality to show how many more people can attend the movie.</p> <p>5. $6y < -18$ 6. $\frac{c}{-3} \geq -2$ 7. $-\frac{r}{3} \leq 6$</p> <p>8. You earn \$9 per hour at your summer job. <u>Write and solve</u> an inequality to show how many hours you need to work in order to buy a smartphone that costs \$300.</p>	<p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>5.</p> <p>6.</p> <p>7.</p> <p>8.</p>	

Name: _____ Date: _____ Period: _____

Targets & Problems	Answer	Expert Initials
<p>I can write & solve 2-step inequalities.</p> <p>1. $3a + 4 > 16$ 2. $\frac{y}{2} - 6 \leq -2$ 3. $-2t - 5 < 9$</p> <p>4. $7(w + 2) < -77$ 5. $\frac{1}{3}(p + 9) \geq 4$ 6. $1.2(j + 2) > -4.8$</p> <p>7. At most, Ashwin can spend \$50 on sandwiches and chips for a picnic. He already bought chips for \$5 and will buy sandwiches that cost \$4.50 each. <u>Write and solve</u> an inequality to show how many sandwiches Ashwin can buy. <u>Show your work and interpret your solution.</u></p>	<p>1.</p> <hr/> <p>2.</p> <hr/> <p>3.</p> <hr/> <p>4.</p> <hr/> <p>5.</p> <hr/> <p>6.</p> <hr/> <p>7.</p>	
<p>I can Make sense of problems & persevere in solving them. Communicate clearly & precisely.</p> <p>1. Gabby has \$500 in her bank account. Every week she withdraws \$40 for miscellaneous expenses. How many weeks can Gabby withdraw the money if she wants to maintain a balance of a least \$200?</p> <p>2. The length of a rectangular fenced enclosure is 12 feet more than the width. If Farmer Davison has 100 feet of fencing, write an inequality then determine the dimensions of the rectangle with the largest perimeter that can be created using 100 feet of fencing.</p>	<p>1.</p> <hr/> <p>2.</p>	