

Sixth Grade Demo Lesson Plan October 14, 2014

<p>Unit Title: Equations and Inequalities</p> <p>Lesson: Envision Topic 2: Equations and Inequalities. 2–4 Problem Solving: Draw a Picture and Write an Equation.</p>	<p>Approx. time: 30</p>	<p>CCSS–M Standards: 6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q, and x are all nonnegative rational numbers.</p>
<p>A. Focus and Coherence</p>		<p>B. Evidence of Math Practices</p>
<p>Students will know: Information in a problem can often be shown using a picture and used to understand and solve the problem. Some problems can be solved by writing and completing a number sentence or equation.</p> <p>Students will be able to: draw pictures that represent information given in problems.</p> <p>Student prior knowledge:</p> <ul style="list-style-type: none"> By drawing a diagram or picture of a problem, students use visual and proportional reasoning skills, to find the solution to problems. Sometimes a picture can make the solution obvious without much reasoning or computing. <p>Which math concepts will this lesson lead to? Write and solve addition and subtraction equations and problems.</p>		<p>Make sense of problems and persevere in solving them.</p> <p>Reasons abstractly and quantitatively.</p> <p>Model with mathematics.</p> <p>Look for and make use of structure.</p> <p>Look for and express regularity in repeated reasoning.</p>
<p>Guiding Questions(s): See below</p>		
<p>Formative Assessments Results: Quick Check Master 4 questions</p>		
<p>Anticipated Student Preconceptions/Misconceptions: Some students had difficulty solving the problems by any method. Some students had difficulty writing an explanation of problem 4 even though they demonstrated the ability to solve the problem. A few students demonstrated mastery of the standard and are ready for a greater challenge.</p>		
<p>Materials/Resources Intervention, On-Level, and Advanced Center Activities ELL sentence frame support</p>		
<p>C. Rigor: Conceptual Understanding, Procedural Skill and Fluency, and Application</p> <p><u>Warm-up</u>—No warm-up today</p> <p><u>Lesson:</u></p> <p>Set the Purpose/Connect: To reinforce and enrich students ability to solve addition and subtraction problems we will be working in groups today based on the Quick Check results from the previous day.</p> <p>Differentiated Instruction: Based on the number card that you were given when you entered the class, follow these instructions:</p> <ul style="list-style-type: none"> Students with the numbers 27 (on-level) and 28 (ELL intervention) assemble into groups of 4 and follow directions on the Center Activity given. Students with number 26 (advanced level) form a group and follow directions on the Center Activity given. Students with number 25 (math intervention) come to the table to complete the Center Activity given. <p>Closure: How can drawing a picture help to understand and solve a problem? How can writing and completing a number sentence or equation solve a problem?</p>		