

2. Posing Problems Part 1: Your family is moving to a new house, and you get to pick out a rug for your bedroom. You find a rug that is 11 ft by 15 $\frac{1}{2}$ ft. You want to check if that will fit in your new room. So, your parents give you a scaled drawing of your bedroom, but something is missing – the scale! When you ask your parents what the scale is, they say, “We don’t know, but it is helps you, so do know that the sheet is 1 ft by 2 ft.” (Students will be given a scale drawing of a room. The scale will be 2 inches to 8 feet. Dimensions will not be given on the drawing. Students will have to measure the walls in the drawing.)		
3. Solving Problems Anticipated Students’ Solutions Ⓐ Students will use ruler to find dimensions of drawing. Ⓑ Students will use fractions to express proportional relationships of drawing to actual bedroom. Ⓒ Students will use multiplication to solve for missing dimensions. Ⓓ Students will use division to solve for missing dimensions. Ⓔ Students will create a chart to express proportional relationships. Ⓕ Students will recognize that some dimensions are equal, and use quantities already calculated.	Students will have a copy of the scale drawing and a ruler.	
4. Comparing and Discussing Students will be given the time to work with their team in finding the dimensions of the scale drawing and the dimensions of the bedroom. Groups of students will be called up to the board to explain their solutions.	Teacher will monitor teams and observe strategies for solving the problem. Call students to board in order of increasing difficulty of solutions. Ask students, “How can we check this solution?” Have other students explain solution.	Are there any groups that were stuck or so late to solve the problem? Do all the groups understand that there is more than one way to solve the problem? Do the students recognize the different ways of expressing the proportional relationships?
4. Scoring/Key: In journal, students will write, “What are the different ways that you can use a scale drawing to find dimensions of an actual place?”		Do students understand how to use a proportional relationship to find unknown quantities?

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