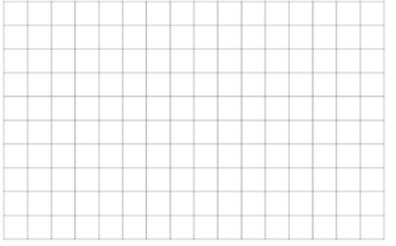

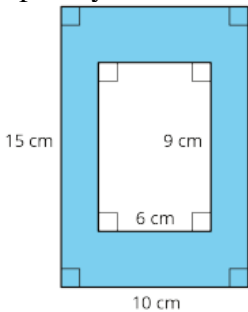
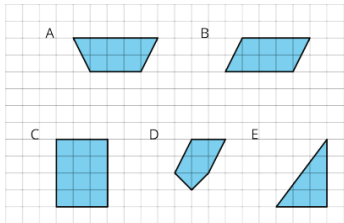


Name: _____
Segment: _____

Weekly HW 1

Show your work for each of the following problems.

This Homework is due on or before FRIDAY.

M:	<p>Draw three different quadrilaterals, each with an area of 12 square units.</p> 	<p>Which shape has a larger area: a rectangle that is 7 inches by $\frac{3}{4}$ inch, or a square with side length of $2\frac{1}{2}$ inches? Show your reasoning.</p>
T:	<p>The diagonal of a rectangle is shown.</p> <p>a. Decompose the rectangle along the diagonal, and recompose the two pieces to make a different shape.</p>  <p>b. How does the area of this new shape compare to the area of the original rectangle? Explain how you know.</p>	<p>The area of a rectangular playground is 78 square meters. If the length of the playground is 13 meters, what is its width?</p>
W:	<p>Find the area of each shaded region. Show or explain your reasoning.</p> 	<p>A homeowner is deciding on the size of tiles to use to fully tile a rectangular wall in her bathroom that is 80 inches by 40 inches. The tiles are squares and come in three side lengths: 8 inches, 4 inches, and 2 inches. State if you agree with the following statement about the tiles. Explain your reasoning.</p> <p><i>Regardless of the size she chooses, she will need the same number of tiles.</i></p>
Th:	<p>Select all of the parallelograms. For each figure that is not selected, explain how you know it is not a parallelogram.</p> 	<p>Find the area of the parallelogram</p> 