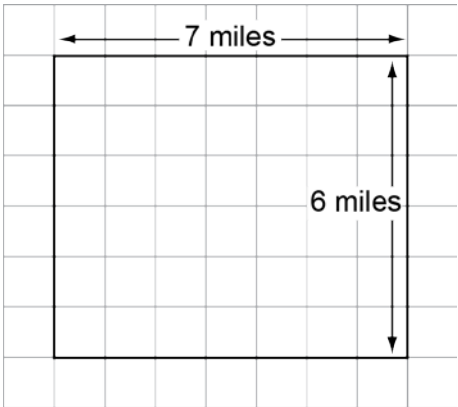
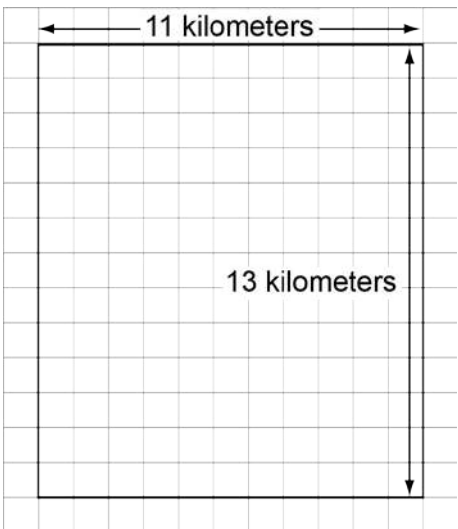
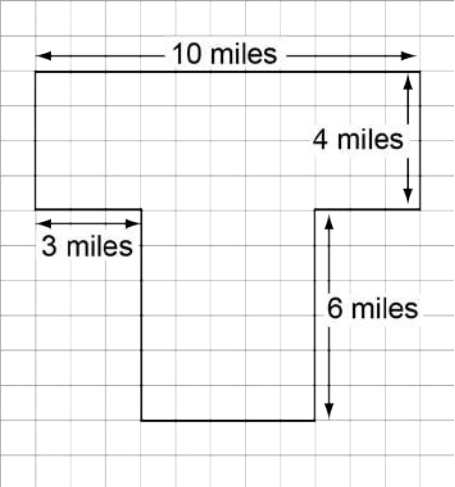
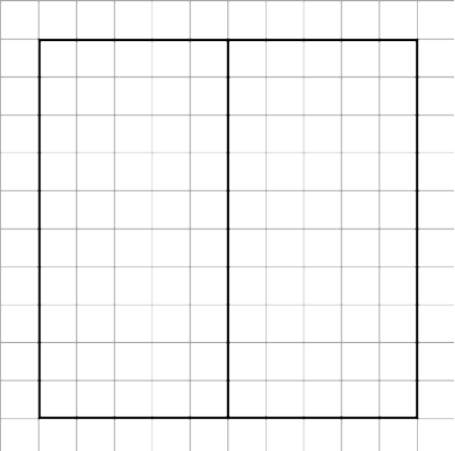
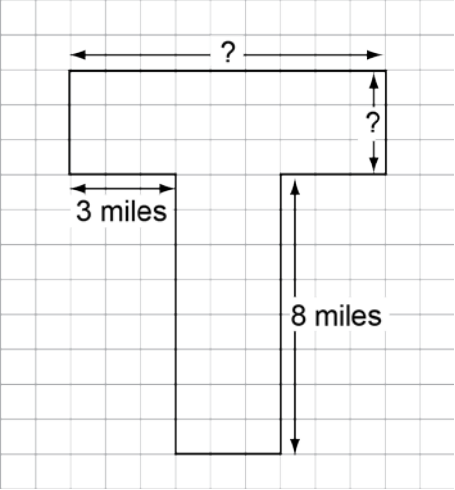


Content Standard		<p><b>MAFS.3.MD Measurement and Data</b></p> <p><b>MAFS.3.MD.3 Geometric measurement: understand concepts of area and relate area to multiplication and addition.</b></p> <p><b>MAFS.3.MD.3.7</b> Relate area to the operations of multiplication and addition.</p> <p><b>MAFS.3.MD.3.7a</b> Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.</p> <p><b>MAFS.3.MD.3.7b</b> Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.</p> <p><b>MAFS.3.MD.3.7c</b> Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths <math>a</math> and <math>b + c</math> is the sum of <math>a \times b</math> and <math>a \times c</math>. Use area models to represent the distributive property in mathematical reasoning.</p> <p><b>MAFS.3.MD.3.7d</b> Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems.</p>
Assessment Limits		Rectangles and shapes that can be decomposed into rectangles. Whole-number side lengths. Multiplication is within 100.
Calculator		No
Acceptable Response Mechanisms		Equation Response Graphic Response – Drawing/Graphing, Hot Spot Multiple Choice Response Multi-Select Response
Context	Allowable	
Example		
Context	Dimensions are a single-digit factor multiplied by a double-digit factor.	
Context easier	Figures are rectangles. Side lengths have smaller values (i.e., single-digit factors). Grid squares are shown within the figures.	
Context more difficult	More complex rectilinear figures. Side lengths have larger value (i.e., double-digit factors). Grid squares may not be provided. Figures may have unknown side lengths. Two rectilinear figures are joined.	

Sample Item Stem	Response Mechanism	Notes, Comments
<p>A park is in the shape of the rectangle shown.</p>  <p>What is the area of the park in square miles?</p>	Equation Response	
<p>A park is shown.</p>  <p>What is the area of the park in square kilometers?</p>	Equation Response	

<p>A park is shown.</p>  <p>What is the area of the park in square miles?</p>	<p>Equation Response</p>	
<p>A rectangular park is shown.</p>  <p>Write an expression that can be used to find the area of the park.</p>	<p>Equation Response</p>	

<p>A park is shown.</p>  <p>What is the area of the park in square miles?</p>	Equation Response	
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