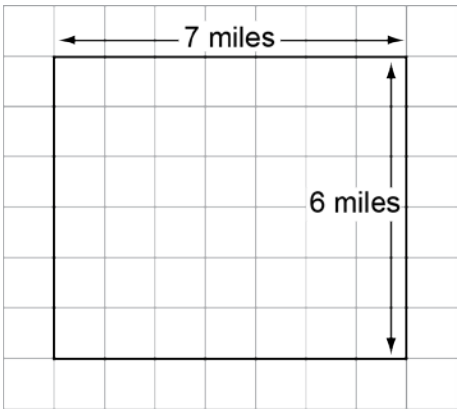
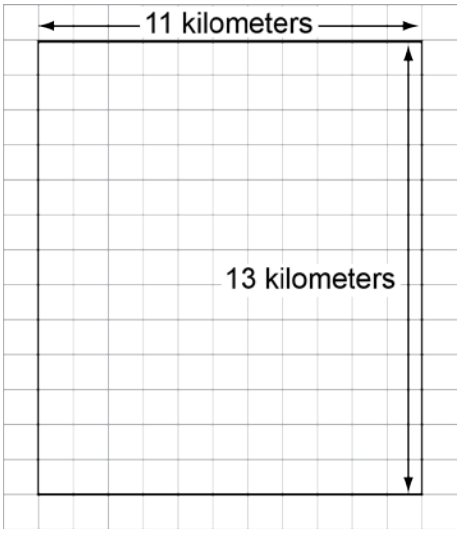
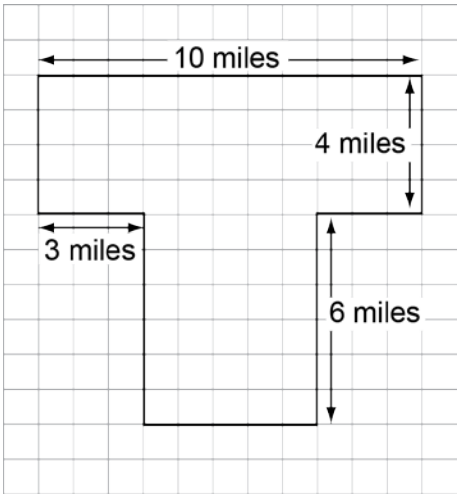
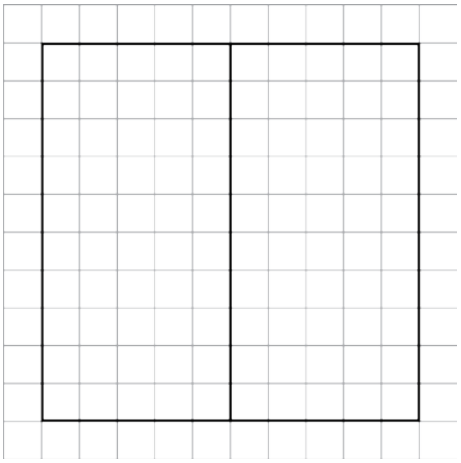
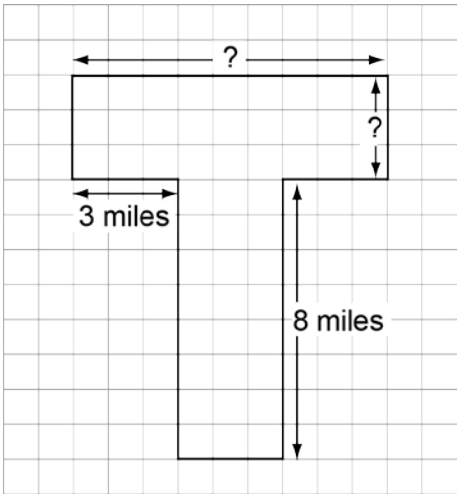
Content Standard	***MAFS.3.MD*** *Measurement and Data* ***MAFS.3.MD.3*** *Geometric measurement: understand concepts of area and relate area to multiplication and addition.* **MAFS.3.MD.3.7** Relate area to the operations of multiplication and addition. **MAFS.3.MD.3.7a** Find the area of a rectangle 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. **MAFS.3.MD.3.7b** 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. **MAFS.3.MD.3.7c** Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive property in mathematical reasoning. **MAFS.3.MD.3.7d** 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.
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
A park is in the shape of the rectangle shown.  What is the area of the park in square miles?	Equation Response	
A park is shown.  What is the area of the park in square kilometers?	Equation Response	

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

A park is shown.  What is the area of the park in square miles?	Equation Response	