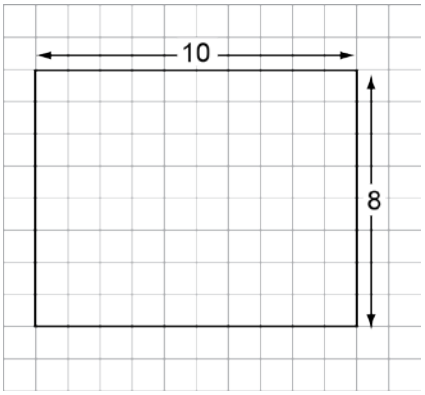
Content Standard	***MAFS.3.MD*** *Measurement and Data* ***MAFS.3.MD.4*** *Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.* **MAFS.3.MD.4.8** Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.
Assessment Limits	Polygons that can be tiled with square units. 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 Simulation Response
Context	Required

Example	
Context	Ben has a garden with a given perimeter and/or area. (A graphic of a 10 by 2 rectangle is shown.)
Context easier	Decrease perimeter by using single-digit factors. Grid squares provided within the graphic. All sides are labeled.
Context more difficult	Increase side lengths of figures. (Note: Factors should be within 100 and should not require students to needlessly count large numbers of tiles.) Construct more than one rectangle. At least one unknown side length. Do not include a graphic.

Sample Item Stem	Response Mechanism	Notes, Comments
Ben is planning a garden. Which measurement describes the perimeter of his garden? A. The length of fence he will need B. The amount of soil he will need C. The number of seeds he will buy D. The length of the garden multiplied by the width	Multiple Choice Response	
Ben's garden has a perimeter of 32 feet. Draw a rectangle that could represent the garden.	Graphic Response – Drawing/Graphing	

Ben has a rectangular garden with side lengths of 2 feet and 5 feet. What is the perimeter, in feet, of Ben's garden?	Equation Response	
Ben wants to create a rectangular garden with a perimeter of 48 feet. Draw two different rectangles that could represent Ben's garden.	Graphic Response – Drawing/Graphing	
Ben's garden is shown.  Draw a rectangle with the same area and different perimeter as Ben's garden.	Graphic Response – Drawing/Graphing	
Ben wants to create a rectangular garden with an area less than 40 square feet. He has 30 feet of fencing. Draw a rectangle that could represent Ben's garden.	Graphic Response – Drawing/Graphing	