Content Standard		MAFS.4.MD Measurement and Data			
		<b>MAFS.4.MD.1</b> Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.			
		<b>MAFS.4.MD.1.3</b> Apply the area and perimeter formulas for rectangles in real world and mathematical problems. <i>For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.</i>			
Assessment Limits		<ul> <li>Figures are limited to rectangles.</li> <li>Fractions are limited to like denominators.</li> <li>Products of factor pairs are limited to the range 1–100.</li> <li>Division is limited to 2-digit by 1-digit, or 2-digit by 2-digit, where one number is multiple of 10.</li> <li>Addition and subtraction within 1,000.</li> <li>When constructing rectangles, the minimum grid size is 20 pixels, and in the context of a situation, one grid must be labeled with the appropriate dimension. That dimension should be "1," as items at this standard should not assess scale.</li> </ul>			
Calculator		No			
Acceptable Response Mechanisms		Equation Response Graphic Response – Drawing/Graphing Multi-Select Response			
Context Al		lowable			
Example					
Context	Both length and width are provided in stem or as options. For area, dimensions are 1-digit by 2-digit. For perimeter, dimensions are 2-digit by 3-digit.				
Context	All four dimensions are provided in stem or options as art.				
easier	For are	ea, dimensions are 1-digit by 2-digit.			
For pe		rimeter, dimensions are 2-digit by 2-digit or less.			
Context Genera		ally, unless restricted by the task demand, problem includes at least one unknown			
more dim		ension.			
aifficult For are		za, umensions are 2-aigit by 2-aigit. rimeter, dimensions are 3-digit by 3-digit or less			
Calculator Acceptable Response Mechanisms Context Context easier Context easier Context more difficult	All Both le For are For per All fou For are Genera dim For are For per	dimension. That dimension should be "1," as items at this standard should not assess scale. No Equation Response Graphic Response – Drawing/Graphing Multi-Select Response lowable Example ength and width are provided in stem or as options. ea, dimensions are 1-digit by 2-digit. rimeter, dimensions are 2-digit by 3-digit. r dimensions are provided in stem or options as art. ea, dimensions are 1-digit by 2-digit. rimeter, dimensions are 2-digit by 2-digit or less. ally, unless restricted by the task demand, problem includes at least one unknown ension. ea, dimensions are 2-digit by 2-digit. rimeter, dimensions are 3-digit by 3-digit or less.			

Sample Item Stem	Response Mechanism	Notes, Comments
A rectangular rug, with dimensions given	Equation Response	
in feet (ft), is shown.		
7 ft		
7 ft		
What is the area of the rug in square feet?		
A store owner needs a rug with an area of	Multi-Select Response	
at least 420 square feet.		
Select all the sizes of rugs the store owner could choose.		
o 40 feet x 20 feet		
<ul> <li>60 feet x 7 feet</li> </ul>		
o 70 feet x 6 feet		
o 4 feet x 20 feet		
<ul> <li>20 feet x 4 feet</li> </ul>		
The perimeter of a rectangular rug is 20	Graphic Response –	
feet.	Drawing/Graphing	
Lies the Connect Line tool to drow a		
Use the Connect Line tool to draw a		
the rug		
the tug.		
🛞 Delisis 🔧 (Add Pauli +		
A rectangular school gym has a length of 120 feet and a perimeter of 520 feet.	Equation Response	
What is the width in fact of the school		
gym?		
5y''':		

Graphic Response –	
Drawing/Graphing	
Graphic Response –	
Drawing/Graphing	
	Graphic Response – Drawing/Graphing