Content Standard		MAFS.3.MD Measurement and Data				
		MAFS.3.MD.2 Represent and interpret data.				
		MAFS.3.MD.2.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.				
Assessment Limits		Categories are five or fewer and use multiplication and division within 100.				
Calculator		No				
Acceptable		Equation Response				
Response		Graphic Response – Drag and Drop, Hot Spot				
Mechanisms Context F	Require	Table Response				
	vequire		Example			
Context	John	hn surveys his classmates by asking them to select their favorite foods from a set of 4.				
Context		ease amount of data (2 to 3 categories).				
easier		de partially completed graph.				
Context	Increa	ase amount of data (5 categories).				
more	Extend to two-step problems.					
difficult						
Sample Item Stem			Response Mechanism	Notes, Comments		
John surveys his classmates about their			Graphic Response – Hot			
favorite foods, as shown in the table.			Spot			
Favorite Food						
Pizza 8						
Salad 5		5				
Hamburger 2						
Click on the graph to complete the bar						
graph.						
state of the second sec						

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John surveys his classmates about their favorite foods, as shown in the bar graph.	Equation Response
Type of Food	
How many more classmates prefer pizza over salad?	
John surveys his classmates about their	Graphic Response – Hot
favorite foods, as shown in the table.	Spot
Favorite Food	
Hot Dogs 5	
Pizza 9	
Salad 6	
Chicken 3	
Fish 8	
Click on the graph to create a bar graph that represents the data.	

John surveys his clas	ssmates about their	Graphic Response – Hot
favorite foods, as sh		Spot
Favorite Food		
Hot Dogs	5	
Pizza	8	
Salad	5	
Hamburger	2	
Click and drag the fo a pictograph.	ood symbols to create	
Pizza 🛛		
Salad		
Hamburger		