Content Standard	MAFS.6.RP Ratios and Proportional Relationships					
Standard	MAFS.6.RP.1 Understand ratio concepts and use ratio reasoning to solve problems.					
	MAFS.6.RP.1.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."					
Assessment	Whole numbers.					
Limits	Ratios can be expressed as fractions $(\frac{1}{5})$, with a colon (1:5), or with words such as per ,					
	to, each, for each, for every, etc. (1 to 5); be sure to vary these representations across items at this standard.					
	Quantities/units can be discrete or continuous and can be the same or different across the two quantities.					
	Be precise in describing relationships such as "the ratio of the number of x to the number of y" or "the ratio of the length of x to the length of y," or explicitly reference types of quantities.					
	Limit use of percent to 6.RP.3c.					
Calculator	No					
Acceptable	Equation Response					
Response	Graphic Response — Drag and Drop					
Mechanisms	Multiple Choice Response					
	Multi-Select Response					
	Natural Language Response					
Context	Table Response Allowable					
Context	Example					
Context	Give the student just the information needed to describe/create the ratio, but in a venue that requires the student to derive the numbers (art, etc.).					
	Give the student the numbers needed to describe/create the ratio, but also more					
Context	information than is needed. Give the student just the information needed to describe/create the ratio.					
easier						
	ive the student information in numerical form.					
Context more	Give the student more information than is needed to describe/create the ratio.					
difficult	Give the student information in a venue that requires the student to derive the numbers needed to describe/create the ratio (art, etc.).					
Sample Item						

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	T	
Jordan has 3 blue marbles	Multiple	
and 8 red marbles.	Choice	
	Response	
What is the ratio of blue		
marbles to red marbles?		
marbies to real marbies.		
A. 3:3		
B. 3:5		
C. 3:8		
D. 3:11		
Jordan has blue and red	Graphic	
marbles in a jar, as shown.	Response —	
	Drag and	
Drag additional marbles to	Drop	
the jar so that the ratio of		
blue to total marbles is 8 to		
11.		
Jordan has a jar of blue, red,	Table	
and yellow marbles, as	Response	
shown.	пезропае	
SHOWH.		
figure fraggles with student		
[jar of marbles, with student		
able to count each one]		
Complete the table to show		
the ratio of blue marbles to		
yellow marbles.		
[table has heading of "Ratio		
of Blue to Yellow", with three		
cells, <box> to <box>]</box></box>		
A jar of marbles is shown.	Table	
/ rjar or marbies is shown	Response	
[jar of red, blue, green, and	пезропае	
I -		
yellow marbles]		
Complete the table to show		
two ratios.		
 The ratio of red 		
marbles to green		
marbles		
 The ratio of blue 		
marbles to total		
marbles		
A jar of marbles is shown.	Multiple	
	Choice	
[jar of red, blue, green, and	Response	
-	Nesponse	
yellow marbles]		

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What does the ratio 3:5			
represent?			
A. The ratio of blue marbles			
to green marbles.			
[other options dealing with			
both part-to-part and part-			
to-whole]			