Content Standard		MAFS.6.RP Ratios and Proportional Relationships.		
		MAFS.6.RP.1 Understand ratio concepts and use ratio reasoning to solve problems.		
		MAFS.6.RP.1.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.		
		MAFS.6.RP.1.3a Make tables of equivalent ratios relating quantities with whole- number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.		
		MAFS.6.RP.1.3b Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?		
		MAFS.6.RP.1.3c Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.		
		<i>MAFS.6.RP.1.3d</i> Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.		
		<i>MAFS.6.RP.1.3e</i> Understand the concept of Pi as the ratio of the circumference of a circle to its diameter.		
Assessment Limits		Rates can be expressed as fractions, with ":" or with words.		
		Units may be the same or different across the two quantities.		
		Percent found as a rate per 100.		
Calculator		No		
Acceptable		Equation Response		
Response		Graphic Response — Drawing, Drag and Drop		
Iviechanisms		Multiple Choice Response		
Context		Allowable		
Example				
Context Generally, one number in the given ratio is single-digit.				
	10% (percentages built on this).			
Context easier	Use numbers in the ratio that divide evenly (compatible) or are multiples of 10.			
	Generally, both numbers in the given ratio are single-digit.			
	75%, 50%, 25%.			
Context	Generally, both numbers in the given rate are double-digit.			
more	Use numbers that are not compatible.			
unncuit	All whole number percentages.			

Sample Item Stem	Response Mechanism	Notes, Comments
A paint mixture uses a specific blue to green ratio.	Table Response	
Complete the table using the ratio given. Paint Mixture		
BlueGreenPaintPaint2546		
A table of equivalent ratios is shown. [table with (2, 20), (4, 40), (6, 60) and (8, 80)]	Graphic Response — Drawing	
Use the Add Point tool to plot these points on the coordinate grid.		
Tom knows that, in his school, 10 out of every 85 students are left-handed. There are 391 students in Tom's school are	Equation Response	
left-handed?		
The standard length of film on a film reel is 300 meters. On the first day of shooting a movie, a director uses 30% of the film in one reel. How long is the strip of film that was used?	Equation Response	
Sam is taking a trip to another town. He has traveled 33 miles and knows that 55% of his trip is complete. How many total miles is Sam's trip?	Equation Response	