Content Standard		MAFS.8.SP Statistics and Probability						
		MAFS.8.SP.1 Investigate patterns of association in bivariate data.						
		MAFS.8.SP.1.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?						
Assessment Limits		Numbers in items must be rational numbers. Data given should include the grand total of the survey. Tables must not include more than two columns (plus category and total) and two rows (plus category and total).						
Calculat	or	Yes						
Item Types		Equation Editor Multiple Choice Multiselect Table Item						
Context	•	Required						
Sample	Item						Item Type	
Two hundred sixty sorange juice. A table		e of relative f	frequenci	es is shown		r apple juice or	Equation Editor	
Davis	Apple juice			Total				
Boys		0.	.20	0.55				
Girls	0.45	0		0.75				
Total	0.45	0.	.55	1.00				
How ma	any more gir	ls prefer app	le juice th	nan boys?				

Sample Item Type

Table Item

Five hundred students were asked whether they prefer apple juice or orange juice. The table shown displays the results.

	Apple Juice	Orange Juice	Total
Boys	30	100	
Girls	210	160	
Total			

How many more girls were surveyed than boys?

$\bullet \bullet \bullet \otimes$					
4 5 6					
789					