itive rom	Rudy surveyed 80 people about whether they prefer blueberry or cherry pie and if they like ice cream with their pie. The results are shown in the table below.	The tabl where m	e belov niddle s <b>FAVO</b>	v shows ti chool stu <b>RITE PLAC</b>	he result dents lik <b>e to eat i</b>	s of a sur e to eat L <b>UNCH</b>	vey of lunch.	
by displaying frequencies and rela wo categorical variables collected f	Ple and ice-Cream Preferences Blueberry Cherny Pie Pie Pie			Cafeteria	Outside	Total		
			Boys	16	21	37		
	lce Cream 29 24		Girls	24	14	38		
	Without Ice Cream 15 12		Total	40	35	75		
	<ul> <li>What conclusion can be made based on the results?</li> <li>A. About 1/3 prefer pie without ice cream</li> <li>B. There are twice as many people who prefer blueberry pie to cherry pie</li> <li>C. Fewer prefer cherry pie with ice cream than blueberry pie without ice cream</li> <li>D. The ratio of people who prefer blueberry pie to cherry pie is equal to the ratio who prefer pie</li> </ul>	How many total students were surveyed? A. 40 B. 35 C. 75 D. 37						
dat: on f	with ice cream to those who prefer pie without							
egorical ng data	The table below shows the results of a survey of where middle school students like to eat lunch.		A group of 50 students were surveyed. The results are displayed in the table below.					
bivariate cate e summarizir	FAVORITE PLACE TO EAT LUNCHCafeteriaOutsideTotalBoys162137Girls241438Total403575	Owns a BicycleDoes Not Own a Bicycle					t	
		Plays		?	5	1		
n in tabl		Does Not Play Sports 3 18					1	
r can also be see irpret a two-way	<ul> <li>Which expression represents the relative frequency of the number of boys who prefer to eat in the cafeteria?</li> <li>A. (16/21) x 100</li> <li>B. (16/40) x 100</li> <li>C. (16/37) x 100</li> <li>D. (16/75) x 100</li> </ul>	How many students play sports and own a bicycle? A. 26 B. 5 C. 24 D. 18						
atio inte	Plainview High School mailed a survey to the student	s who Survey Results						
soci and	graduated the previous year. The survey asked the s whether or not they are enrolled in a college. The re	tudents sults of			Male	Female	Total	
of as uct	the students who returned the survey are listed below	v:	Enrolle	d in College	200			
ns c nstr	<ul> <li>There are 254 students</li> <li>172 of the students are female</li> </ul>		Total	oned in Con	ege			
iat patteri able. Coi	<ul> <li>48 of the males are enrolled in college</li> <li>124 of the females are enrolled in college.</li> <li>Part A: Complete the two-way table based on the given data.</li> </ul>							
nderstand th a two-way t cts.	<b>Part B:</b> Calculate the relative frequency of all the females surveyed who have enrolled in college and the relative frequency of all the males surveyed who have enrolled in college. Explain your answers.							
<b>.4</b> Uh Icies in a	Should the average of the two relative frequencies you found be equal to the relative frequency of all the students surveyed who have enrolled in college? Explain why or why not.							
3.SP requer he sam								

Sports	?		5				
Not Play Sports	3		18				
y students play sports and own a bicycle? 6 4 8							
Survey Results							
	м	ale	Female	Total			

## **Enrolled in College** Not Enrolled in College Total

are displayed in the table below.						
	Owns a Bicycle	Does Not Own a Bicycle				
		-				