1. The results of a few student surveys are displayed below. Find and interpret the marginal frequencies of each two-way table.   Then find the probabilities.

		Skateboard	
		Yes	**No**
Surf	**Yes**	32	65
	No	45	24

a. What percent of students surf?

b. What percent of students do not skateboard?

c. What percent of students who surf also skateboard?

d. What percent of students neither surf nor skateboard?

		Pet	
		Yes	**No**
Job	**Yes**	74	13
	No	153	32

a. What percent of students have a job?

b. What percent of students who have a job have a pet?

c. What percent of students do not have a pet?

d. What percent of students who do not have a pet do not have a job?

2. Complete the two-way table and find the probabilities.

		Dual Enrollment Student		
		Yes	**No**	**Total**
Class	**Sophomore**		247	
	Senior	83		
	Total		432	550

a. What percent of those surveyed are dual enrollment students?

b. What percent of dual enrollment students are sophomores?

c. What percent of seniors are not dual enrollment students?

d. What percent of sophomores are dual enrollment students?

3. Construct a two-way table based on the information below.

You conduct a survey that asks 397 students in your school about whether they have played a musical instrument or participated in a sport. One hundred eighteen students have played a musical instrument and 57 of those students have participated in a sport. Thirty-four of the students have not played a musical instrument or participated in a sport. Organize the results in a two-way table. Include the marginal frequencies.