

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

- What percent of students surf?
- What percent of students do not skateboard?
- What percent of students who surf also skateboard?
- What percent of students neither surf nor skateboard?

		Pet	
		Yes	No
Job	Yes	74	13
	No	153	32

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

- What percent of those surveyed are dual enrollment students?
- What percent of dual enrollment students are sophomores?
- What percent of seniors are not dual enrollment students?
- 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.