

11.4 Practice A

You conduct a survey that asks 253 students about whether they ride a bicycle to school. In Exercises 1–4, use the results of the survey shown in the two-way table.

		Ride Bike to School	
		Yes	No
Class	Freshman	54	72
	Sophomore	5	122

- How many freshmen were surveyed?
- How many sophomores were surveyed?
- How many students ride a bicycle to school?
- How many students do not ride a bicycle to school?

In Exercises 5 and 6, find and interpret the marginal frequencies.

5.

		Skateboard	
		Yes	No
Surf	Yes	32	65
	No	45	24

6.

		Pet	
		Yes	No
Job	Yes	74	13
	No	153	32

- Refer to Exercise 5.
 - 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?

11.4

Practice B

In Exercises 1 and 2, find and interpret the marginal frequencies.

1.

		Coffee	
		Yes	No
Tea	Yes	33	112
	No	24	20

2.

		Airplane	
		Yes	No
Train	Yes	5	3
	No	278	321

In Exercises 3 and 4, complete the two-way table.

3.

		Participated in a Triathlon		Total
		Yes	No	
Gender	Female	24		137
	Male		142	
Total				306

4.

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

5. 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.