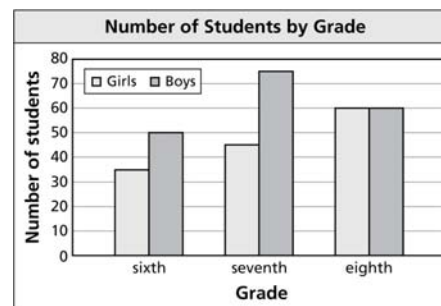


# 9.3

## Two Way Tables

## Warm Up Activities

With your partner, use the double bar graph to complete the table.



	Boys	Girls
6th grade		
7th grade		
8th grade		

## Warm Up Activities

With your partner, use the table to complete the following.

		Been outside the U.S.?	
		Yes	No
Speak more than one language?	Yes	12	4
	No	18	12

- How many people surveyed speak more than one language?
- How many people surveyed have never traveled outside of the U.S.?
- How many people only speak one language and have traveled outside of the U.S.?

## Two-Way Tables

A **two-way table** displays two \_\_\_\_\_ of data collected from the same source.

The following is s survey of students regarding their grades a on the last test and whether they studied for the test. The two-way table shows your results.

		Student	
		Studied	Did Not Study
Grade	Passed	21	2
	Failed	1	6

Each entry in the table is called a \_\_\_\_\_.

## Finding Marginal Frequencies

Marginal frequencies are basically the \_\_\_\_\_ of each column and row.

Find and interpret the marginal frequencies for the survey.

		Student	
		Studied	Did Not Study
Grade	Passed	21	2
	Failed	1	6

## Practice

Use the two-way table to complete the following:

- 1) Find the total of each row and column.

		Fundraiser	
		No	Yes
Gender	Female	22	51
	Male	30	29

- 2) What are these totals called?

- 3) How many female students will be participating in the fundraiser?

- 4) How many male students will not be participating in the fundraiser?

## Practice

- 5) Find and interpret the marginal frequencies for the following two-way table.

		School Play	
		Attend	Not Attend
Class	Junior	41	30
	Senior	52	23

## Practice

- 6) You randomly survey students in a school about whether they buy a school lunch or pack a lunch. Your results are shown.

- a) Make a two-way table that includes the marginal frequencies.

Grade	6				
	7				
	8				

- b) For 6<sup>th</sup> grade level, what percent of the students in the survey pack a lunch? buy a school lunch?