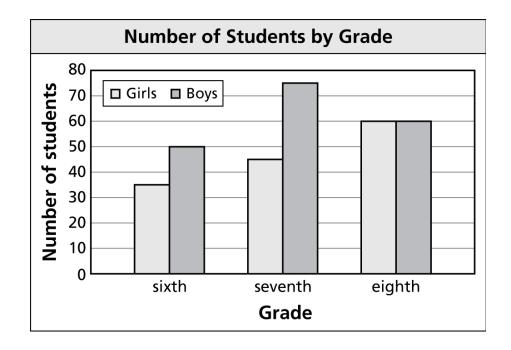


# **Two Way Tables**

# **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	

a) How many people surveyed speak more than one language?

b) How many people surveyed have never traveled outside of the U.S.?

c) How many people only speak one language and have traveled outside of the U.S.?

# **Two-Way Tables**

A **two-way table** displays two \_\_\_\_\_ 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.

Studied for the own of t

Each entry in the table is called a \_

of data

# **Finding Marginal Frequencies**

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

Find and interpret the marginal frequencies for the survey.

		Student			
		Studied	<b>Did Not Study</b>		
Grade	Passed	21	2		
5 Failed	1	6			



Use the two-way table to complete the following:

1) Find the total of each row and			Fundraiser		
column.			No	Yes	
2) What are these totals called?	Ider	Female	22	51	
2) What are these totals called?	Gen	Male	30	29	

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

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

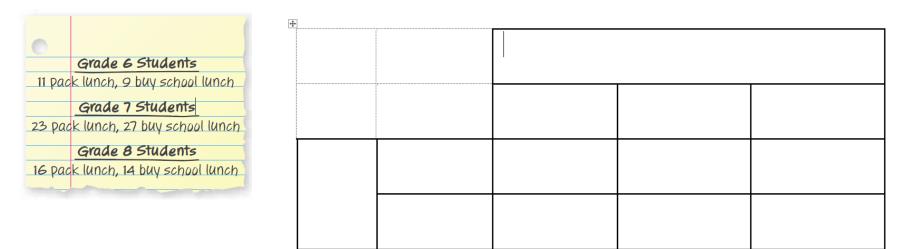


# 5) Find and *interpret* the marginal frequencies for the following two-way table.

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

#### **Practice**

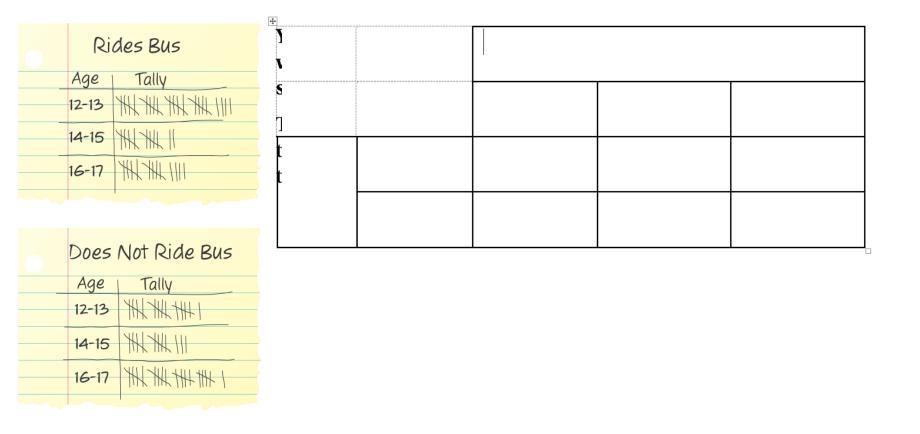
- 6) You randomly survey students in a school about whether they buy a school lunch or pack a lunch. Your results are shown.
  - a) Make a two-way table that includes the marginal frequencies.



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

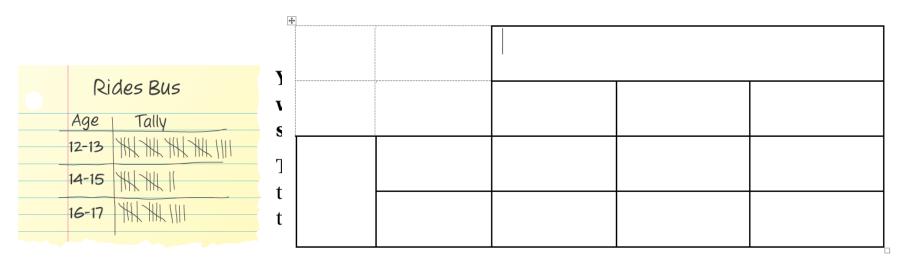
#### **Practice**

7) You randomly survey students between the ages of 12 and 17 about whether they ride the bus to school. The results are shown in the tally sheets. Make a two-way table that includes the marginal frequencies.



#### **Practice**

8) a) For each age group, what percent of the students in the survey ride the bus to school? do not ride the bus to school? Organize the results in a two-way table. Explain what one of the entries represents.





b) Does the table in part (a) show a relationship between age and whether students ride the bus to school? Explain.