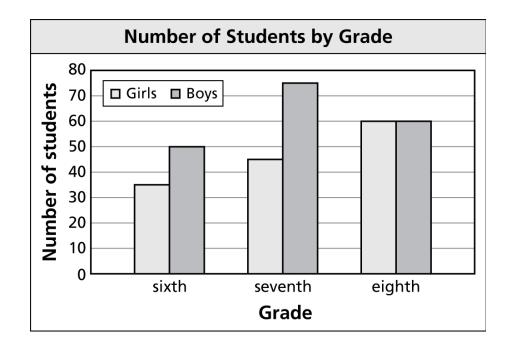


Two Way Tables

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.?

<u>Two-Way Tables</u>

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 overview your
 Studied
 Did Not Study

 Person
 21
 2

 Failed
 1
 6

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 | Did Not Study | |
| Grade | Passed | 21 | 2 | |
| 5 Failed | 1 | 6 | | |



Use the two-way table to complete the following:

|) Find the total of each row and | | | Fund | 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?

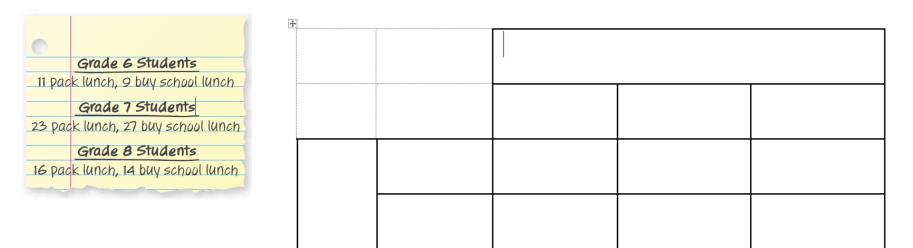


5) Find and *interpret* the marginal frequencies for the following two-way table.

| | | | School Play | |
|---|--------|--------|-------------|---------------|
| | | | Attend | Not Attend |
| | SS | Junior | 41 | 30 |
| Ŭ | 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 6th grade level, what percent of the students in the survey pack a lunch? buy a school lunch?