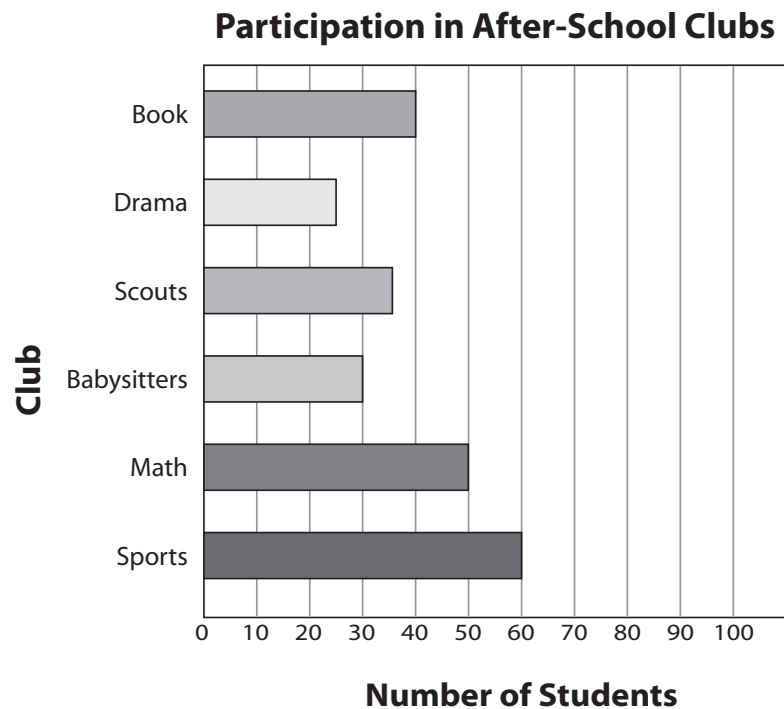


## Lesson #35

### Graphs: Part I

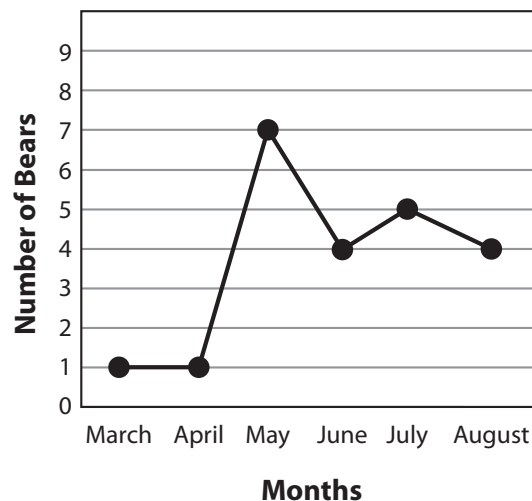
There are several different types of graphs which are used to organize facts and data. Some examples are **bar graphs**, **column graphs**, **line graphs**, **pictographs**, and **pie graphs**. Nearly every graph has a title and headings along with a key or legend which tells you the value of what you are plotting.

A **bar graph** can be arranged horizontally or vertically. It has a sequence of numbers on one axis and a group of related items on the other axis.



A **line graph** is similar to a bar graph. It also has a horizontal and a vertical axis. Lines and points are used when plotting data on a line graph. This type of graph is often used to show trends over a period of time.

**Reported Bear Sightings  
at Yellowstone - 2009**



Use the bar and line graphs on the opposite page to complete items 1 – 5.

- Put a star next to the names of the two most popular after-school clubs.
- The book club had how many more students than the drama club? \_\_\_\_\_
- Which club had the lowest attendance? \_\_\_\_\_
- During which month in 2009, was there a peak in bear sightings?

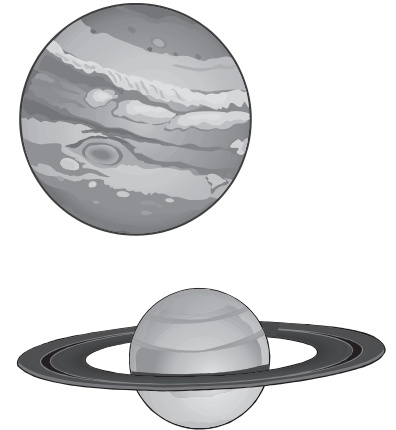
March      April      May      June      July      August

- What is the **total** number of bear sightings reported in Yellowstone in 2009?

1      7      9      20      22      2009

Use the chart below to complete numbers 6 and 7.

| Planet  | Equator Diameters (km) |
|---------|------------------------|
| Mercury | 4,880                  |
| Venus   | 12,103                 |
| Earth   | 12,756                 |
| Mars    | 6,794                  |
| Jupiter | 142,984                |
| Saturn  | 120,536                |
| Uranus  | 51,118                 |
| Neptune | 49,528                 |



Source: [http://www.nasa.gov/audience/foreducators/k-4/features/F\\_Those\\_Whirling\\_Twirling\\_Planets.html](http://www.nasa.gov/audience/foreducators/k-4/features/F_Those_Whirling_Twirling_Planets.html)

- Highlight the names of the two planets that are smallest in diameter.
- The best title for the chart is \_\_\_\_\_.
  - The Solar System
  - Mercury is Little
  - Comparing Planet Diameters
  - Where's Pluto?



**Study Strategy** Use a chart or table to organize large amounts of data. This will allow you to see all of the information at a glance.

- Use a \_\_\_\_\_ to organize a large amount of data.