

# Survey and Statistics

What is Your  
Favorite Subject?

How Many  
Different  
Sports Do You  
Play Well?

How Many  
Times a Week  
Do You Eat  
Lunch?



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## Survey and Statistics

### Lesson 3

### Representing the Information



#### Objectives:

Students will represent the data or information

#### Materials Needed:

- 1) Statistical Survey Worksheets
- 2) Several graphs from newspapers and magazines
- 3) Graph paper

#### Opening Activity:

Show a picture of the graph on the next page. Ask the students the following questions about the graph:

- 1) What do you think this graph shows?
- 2) What is the title of this graph?
- 3) Where is the X-axis?
- 4) What is the X-axis title?
- 5) Where is the Y-axis?
- 6) What is the Y axis title?
- 7) How might you use this information if you were opening up a fast food restaurant?

#### Activity:

- 1) Show the graphs on pages 22 and 23. They are the same information. How does changing the scale on the graph emphasize or de-emphasize the information? (*By changing the scale, it makes the differences in the bars easier or less easier to read.*)
- 2) Look at the different graphs collected from newspapers and magazines. Does the scale emphasize or de-emphasize the information in the graph?
- 3) Each student should take one survey question and create a bar or pictograph graph. They should use the information in the total column instead of the boys or girls columns. Students should use a scale that begins at zero to make the graph more valid.
- 4) If possible, students may create their graphs using a computer. Most spreadsheet programs have chart making features.

#### Closure:

The students may share their graphs with the class. They should explain the information that is in the graph as well as identify the x-axis, y-axis and main titles. The students should select which graphs they would like to include in the team or class almanac.



