

BAR GRAPHS

When you have finished this page, try the [Bar Graphs Quiz](#).

Bar graphs are an excellent way to show results that are one time, that aren't continuous - especially samplings such as surveys, inventories, etc. Below is a typical survey asking students about their favorite after school activity. Notice that in this graph each column is labeled - it is also possible to label the category to the left of the bar.

In this case, the numbers for each category are across the bottom of the chart.

A bar chart is marked off with a series of lines called grid lines. These lines typically mark off a numerical point in the series of numbers on the axis or line. In this case, each grid line going up and down marks a multiple of 20 as the graph is divided such. More gridlines can make it easier to be exact with the amounts being shown on the bar graph, but too many can make it confusing.

Notice that for data that does not fall evenly on a multiple of 20, the bar is in between two grid lines.

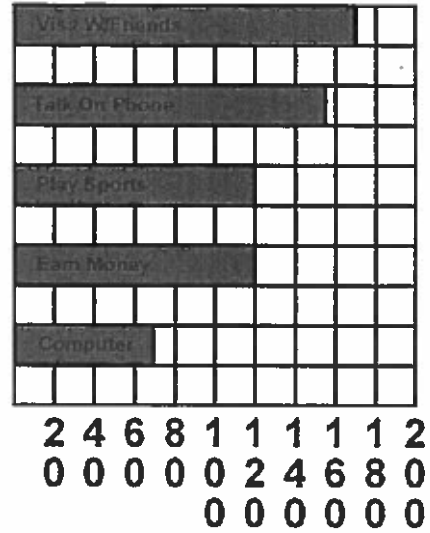
Bar graphs are useful to get an overall idea of trends in responses - which categories get many versus few responses.

Favorite Student After School Activity

Activity	Number

Visit W/Friends	175
Talk on Phone	168
Play Sports	120
Earn Money	120
Use Computers	65

Favorite Student After School Activity

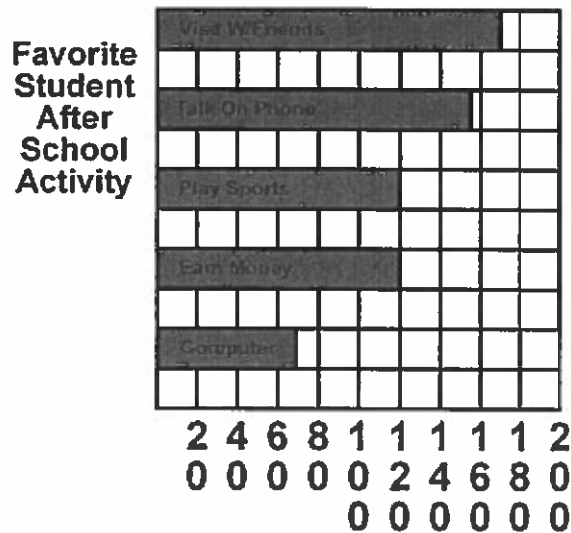


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BAR GRAPH QUIZ

Click on the radio buttons in front of the correct answers to the questions about the graph.



1. In the bar graph above, students favorite activity is

- Using the computer
- Visitng with friends
- Earning money

2. According to the bar graph which is the least favorite after school activity?

- Using on the computer
- Visitng with friends
- Earning money

3. Which two activities are favored by an equal number of students?

- Playing sports and earning money
- Using the computer and earning money
- Talking on the phone and playing sports.

4. How many students said they their favorite after school activity is playing sports?

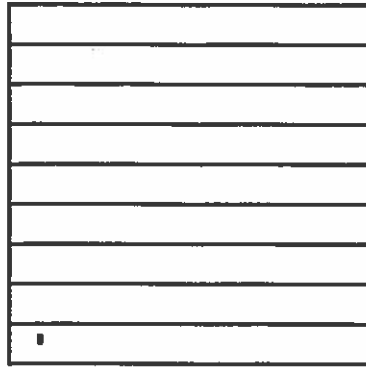
- 100 120 140

5. Based on this survey would you say more students like to be around people or be alone after school?

- Be alone Be around people

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LINE GRAPHS

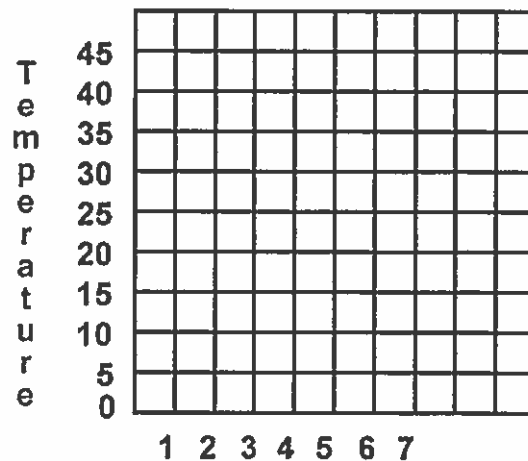
When you have finished this page, try the [Line Graphs Quiz](#).

A line graph is most useful in displaying data or information that changes continuously over time. The example below shows the changes in the temperature over a week in January. Notice that the title of the graph is "Average Daily Temperature for January 1-7 in degrees Fahrenheit".

To the left is a table that shows the date in one column and the corresponding temperature in the second column. The line graph on the right shows the degrees of temperature going up the vertical axis (up and down numbers on the left of the graph) and the days of the week on the horizontal axis (going sideways from left to right). The points for the temperature for each day are connected by a line - thus the graph is a line graph.

Average Daily Temperature for January 1-7 in Degrees Fahrenheit

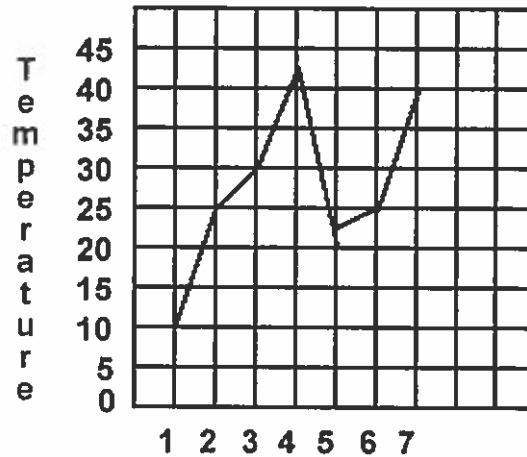
Date	Temperature
1	10
2	25
3	30
4	42
5	23
6	25
7	40



Average Daily Temperature for January 1-7 in Degrees Fahrenheit

Line Graphs Quiz

Click on the radio buttons in front of the correct answers to the questions.



Average Daily Temperature for
January 1-7 in Degrees Fahrenheit

1. This graph shows the temperatures during the period of a
 Week Month Year
2. The temperatures in the beginning of the week were rising or falling?
 Rising Falling
3. There was the least amount of change between days
 6 and 7
 5 and 6
 1 and two
4. If freezing is 32 degrees, which day was above freezing?
 Day 1
 Day 2
 Day 4

5. When was the greatest drop in temperatures between?

- Days 1 and 2
- Days 3 and 4
- Days 4 and 5

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CIRCLE/PIE GRAPHS

When you have finished this page, try the Circle/Pie Graph Quiz.

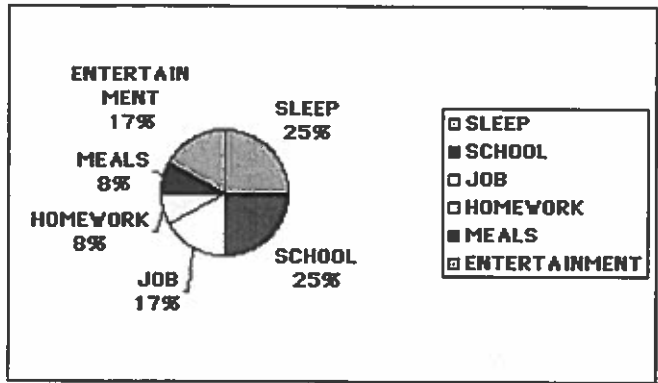
Circle or pie graphs are particularly good illustrations when considering how many parts of a whole are inception. In the table below both the number of hours in a whole day devoted to certain activities is listed as well as the percent of time for each of these activities. The pie chart is then divided very much as a baker's pie would be into slices that represent the proportional amounts of time spent on each activity.

To the right of the pie chart is a legend that tells which color stands for which category. In addition, the percents are also near the pie slice that stands for that particular amount of time spent.

Percent of Hours of a Day Spent on Activities

ACTIVITY	HOURS	PERCENT OF DAY
Sleep	6	25
School	6	25
Job	4	17
Entertainment	4	17
Meals	2	8
Homework	2	8

Percent of Hours of a Day Spent on Activities



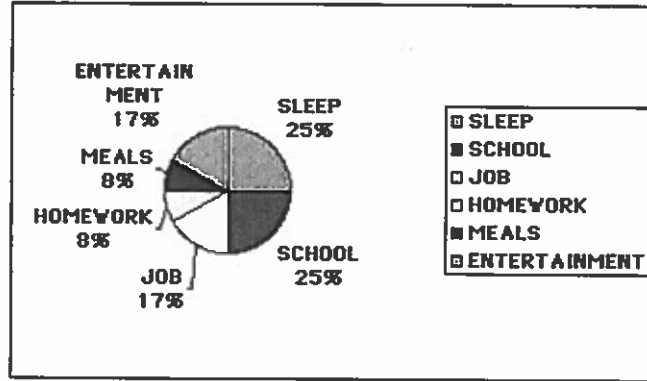
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Circle/Pie Graph Quiz

Click on the radio buttons in front of the correct answers to the questions.

Percent of Hours of a Day Spent on Activities



1. A part of a circle/pie graph that explains the colors that represent each part or slice of the graph is a

- legend grid axis

2. These two activities took up half of the time of the day.

- Entertainment and school
 Meals and school
 Sleep and school

3. These two activities took up the least amount of time.

- Sleep and school
 Meals and homework
 Sleep and job

4. Which of these took up one fourth of the day?

- Entertainment
 Sleep
 Homework

5. What percent of the day does homework take up?

- 2 8 25

6. Which of these takes up the same amount of time as meals and entertainment together?

- Job
 School
 Homework

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