

Graphing

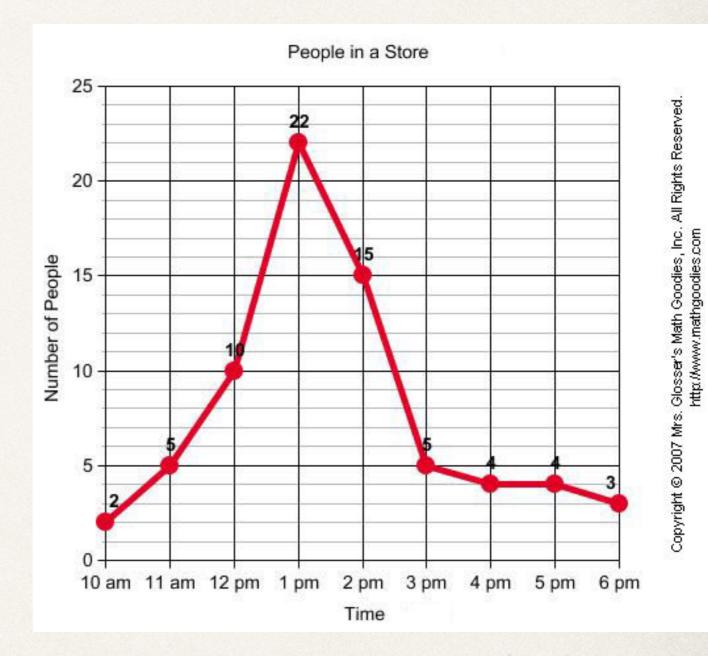
www.pinterest.com

Why Graph?

- A visual way to represent data
- * Easier to make comparisons and look for patterns

Line Graphs

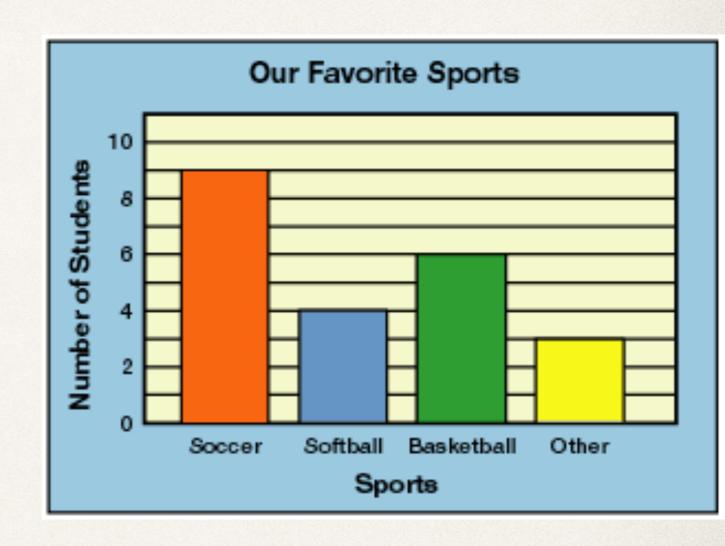
 Typically used to graph data that has been measured over a period of time



http://www.mathgoodies.com/ LESSONS/graphs/images/ line_example4.jpg

Bar Graphs

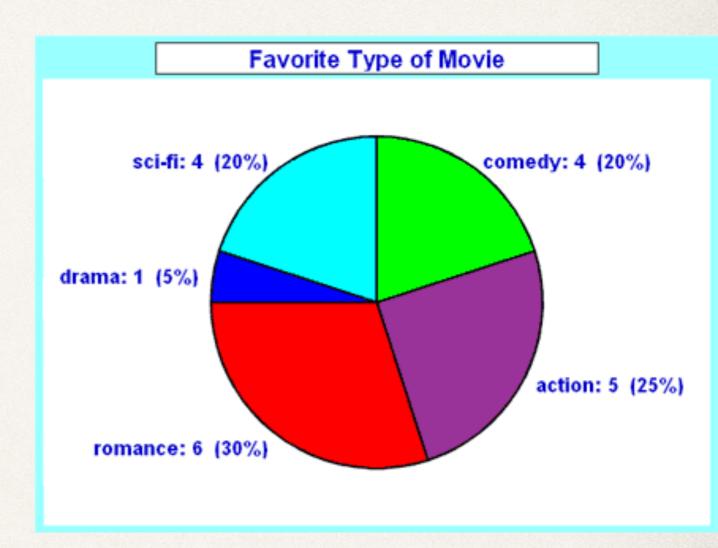
 Typically used to compare data in different categories



http://www.eduplace.com/math/mw/background/5/06a/graphics/ts 5 6a int-3.gif

Pie Charts

* Typically used to compare data in different categories. The data must be in % form.



http://www.mathsisfun.com/data/
images/pie-chart-movies.gif

Scatter Plot

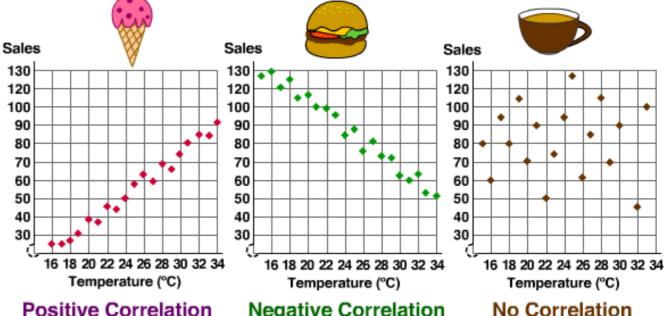
- Typically used to represent a relationship between two sets of data.
- There may be a positive correlation: as x increases, y increases
- Thee may be a negative correlation: as x increases, y decreases
- There may be no correlation



Oceanarium Kiosk Management



To manage ordering supplies more effectively, three scatter plots were made to see if there was any correlation between daily temperatures and sales of ice cream, hamburgers and coffee.



Positive Correlation

A positive trend - as one set of values increases, the other set increases.

For example, as the temperature went up ice cream sales went up.

Negative Correlation

A negative trend - as one No trend - the points are set of values increases, scattered randomly with no visible pattern. the other set decreases.

For example, as the temperature went up hamburger sales went down.

For example, as the temperature went up there was no apparent effect on coffee sales.

A line of best fit or trend line is a straight line that best represents the values on a scatter plot.

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http://www.amathsdictionaryforkids.com/gr/ simages/scatterPlot.gif

Tips for Graphing - TAPP

- * T Title. What is the graph about?
- * A Label the axes. Label axes or sectors with numbers and words.
- * P Pattern. Do you notice any patterns? Examples of words you can use: increasing, decreasing, more, less, correlation
- * P Purpose. Who might use this information? Why?