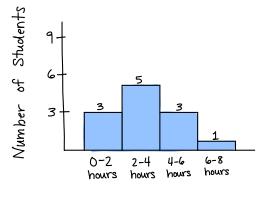
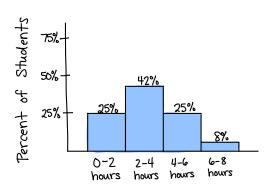
Histograms

A histogram is a visual representation of data that shows how many (or what percent) of the data fit in certain categories or bins.

Ex Ave. Time Spent Studying Outside of Class



Hours Spent, On Avg., Per Week



Hours Spent, On Avg., Per Week

To make a histogram

- Categorical Data
 - · Calculate total number in each category ("_____")

 Laborate Table
 - · Calculate percent of whole in each category ("_____")
 - · Put categories along horizontal axis & frequencies (or rel. freq.) as vertical bars.
 - · ____ axes & give ___ to histogram.

- Numerical Data

- · Sort data.
- · Decide what "____" to use
 - 5-20 bins usually (square root of # data pts)
 - bin width : try range of data vals. divided by # bins
- · Then can categorize data into bins & proceed as above.

Helpful Excel formulas & features

= SUM (...) ← for adding up numbers

Insert Chart

Chart Design, Add Chart Element, Axes Titles

Sort

Color code cells

= COUNT(...) ← for counting entries