

Project #1

Math 114-F

Due Monday, September 24, 2001

Assignment:

You are to download some statistical data from a given web site and describe the data numerically and pictorially.

Goal:

You should be able to summarize the center and dispersion of the data, as well as construct a frequency diagram for the data. You should also master the mechanics of downloading data into a spreadsheet.

Steps:

1. Go to the web site
<http://lib.stat.cmu.edu/DASL/>
and follow the link to *Data subjects*.
2. Choose a topic of interest to both of you.
3. Pick a data set with some variable of interest to you.
4. Cut and paste the data into an *Excel* worksheet.
5. Find the mean and standard deviation of the data.
6. Find the five-number summary (minimum, first quartile, median, third quartile, and maximum) for the data.
7. Find the frequency distribution for your data (with between five and ten classes) and plot the frequency histogram for your data in a chart, with a title for the chart and labels for the axes.
8. Turn in a report that
 - (a) Describes the nature of the data, *including the units*.
 - (b) Describes the data according to the criteria that we have discussed in class, including
 - i. where is the center?
 - ii. is it skewed?
 - iii. is it spread out or compact?
 - iv. does all of the data seem to be from the same population?

v. are there any outliers?
and also has attached a print out of your spreadsheet showing
all of the data and numerical results.

Each of your three projects should be word-processed.