

Summarizing and Graphing Data

Math 122 - Introduction to Statistics and
Probability

Frequency Table of Heights

Height	Frequency
57-59.75	1
60-62.75	1
63-65.75	7
66-68.75	5
69-71.75	8
72-74.75	3
75-77.75	2

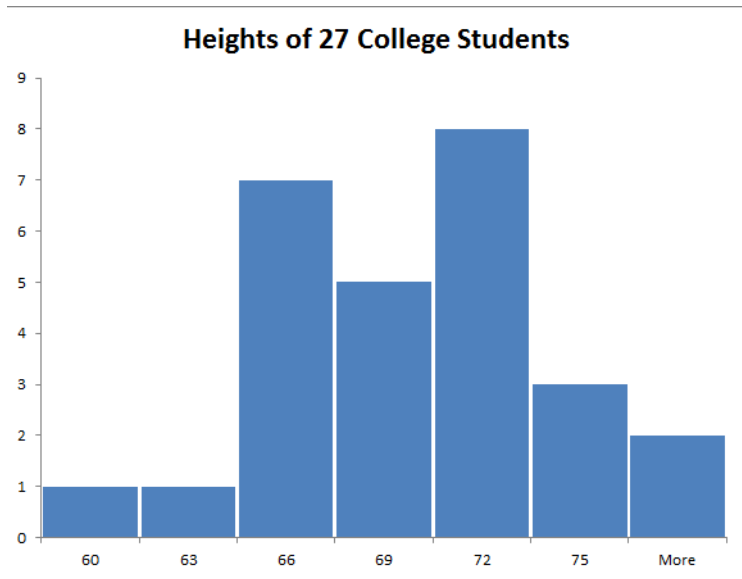
Relative Frequency Table of Heights

Height	Frequency
57-59.75	4%
60-62.75	4%
63-65.75	26%
66-68.75	19%
69-71.75	30%
72-74.75	11%
75-77.75	7%

Cumulative Frequency Table of Heights

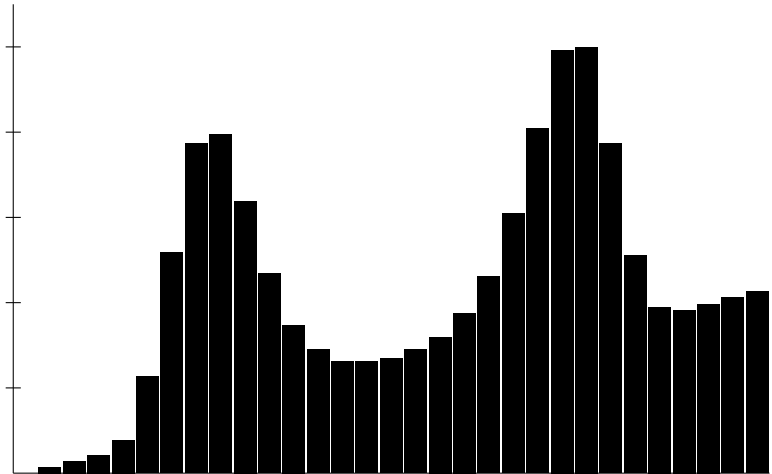
Height	Frequency
59.75	1
62.75	2
65.75	9
68.75	14
71.75	22
74.75	25
77.75	27

Histogram of Heights

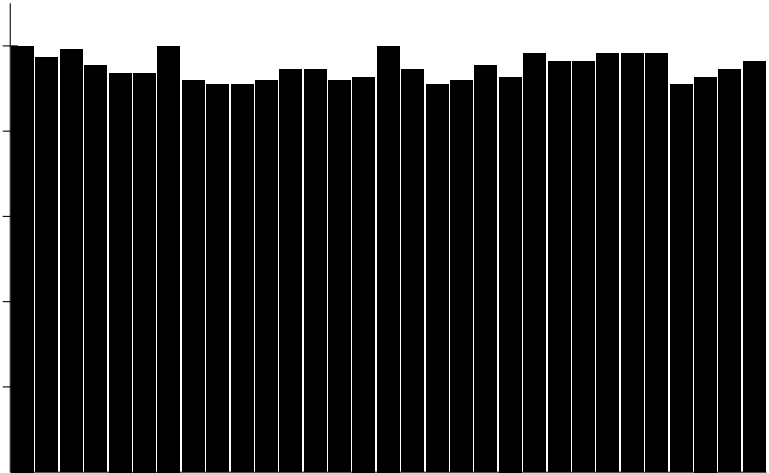


Things To Look For in Histograms

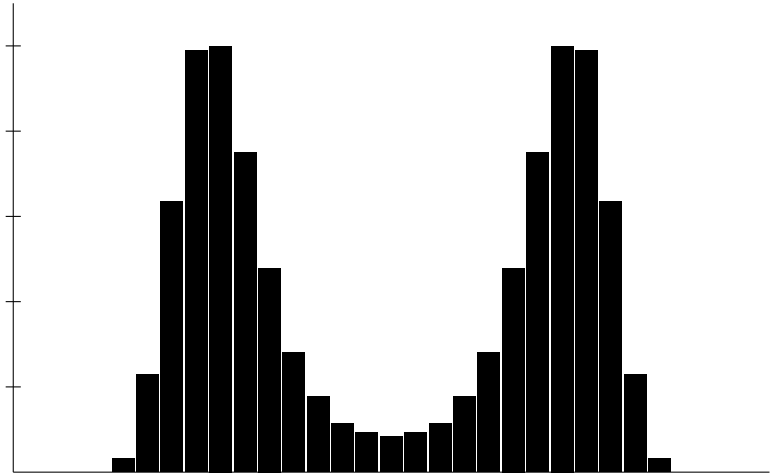
Multiple Peaks



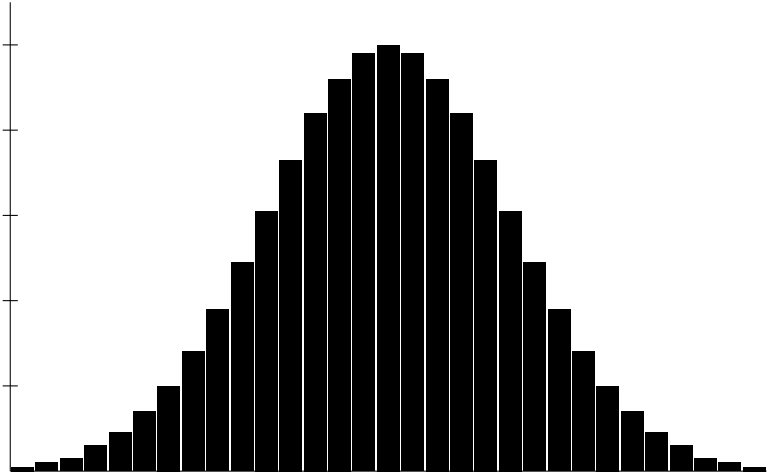
Approximately Uniform



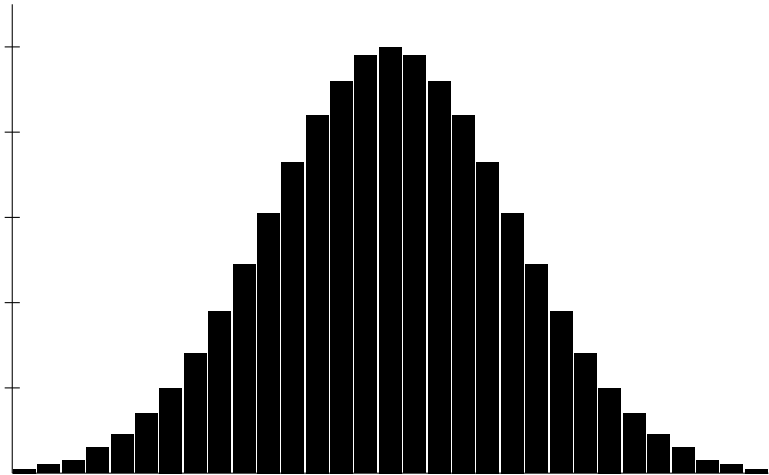
Symmetry



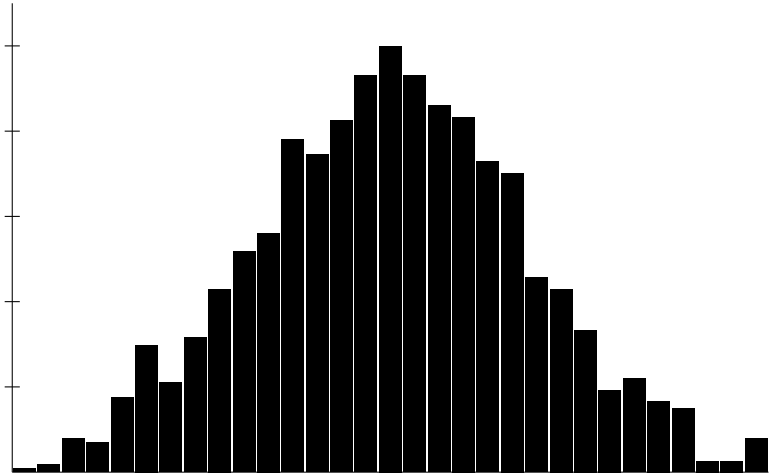
Symmetry



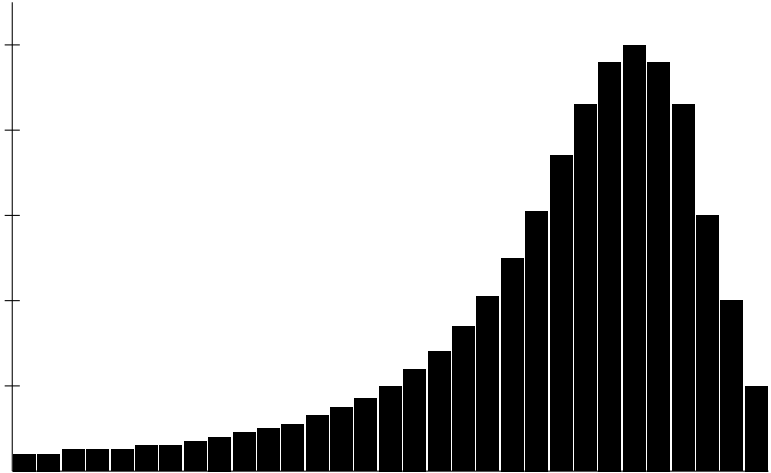
Bell Shaped/Normal



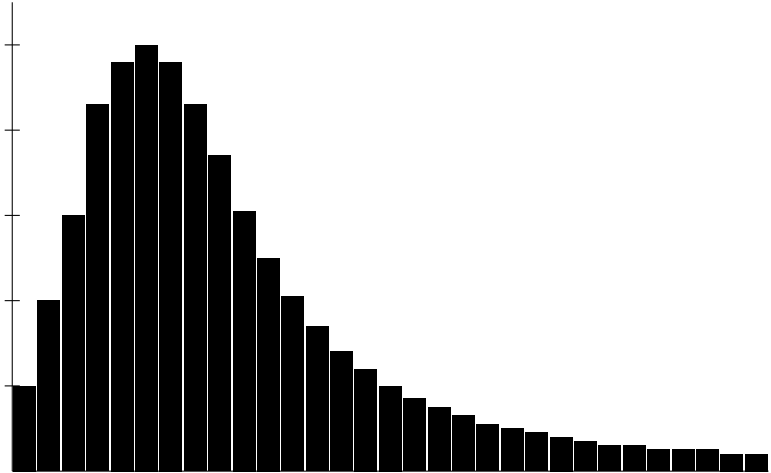
Bell Shaped/Normal



Skew Left

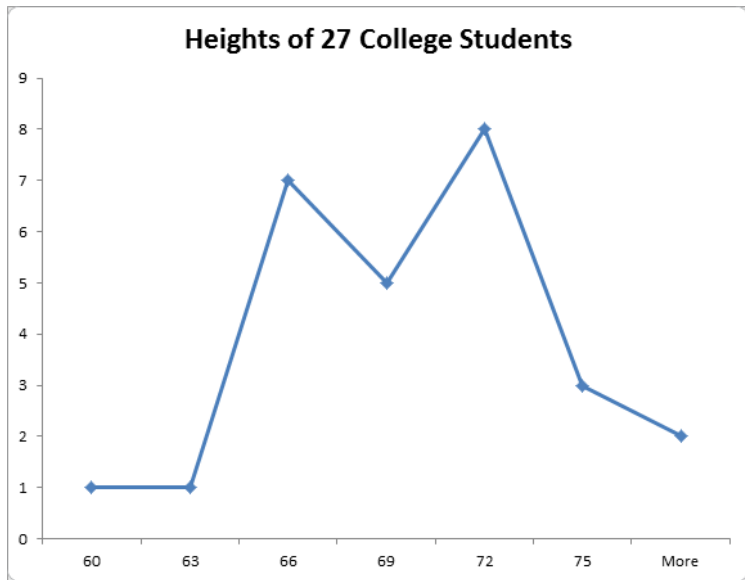


Skew Right

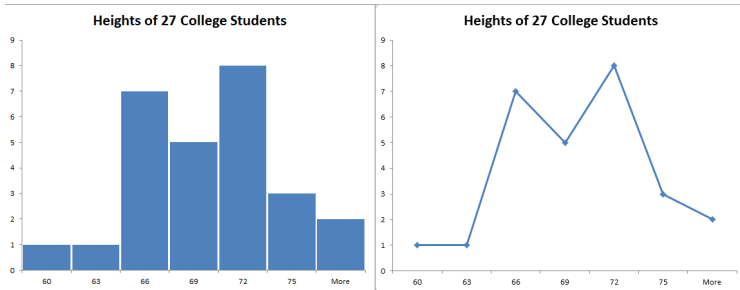


Other Statistical Graphs

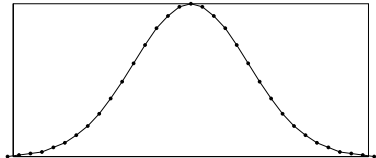
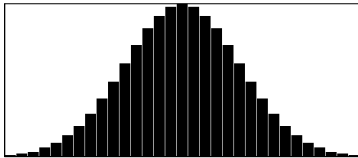
Frequency Polygon



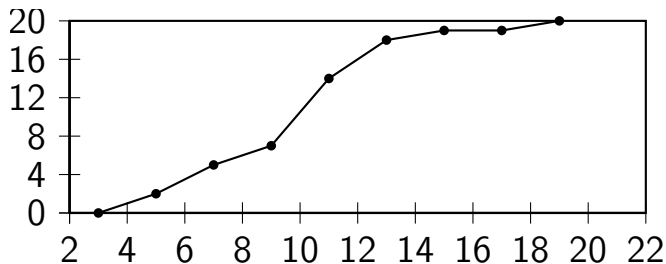
Frequency Polygon



Frequency Polygon

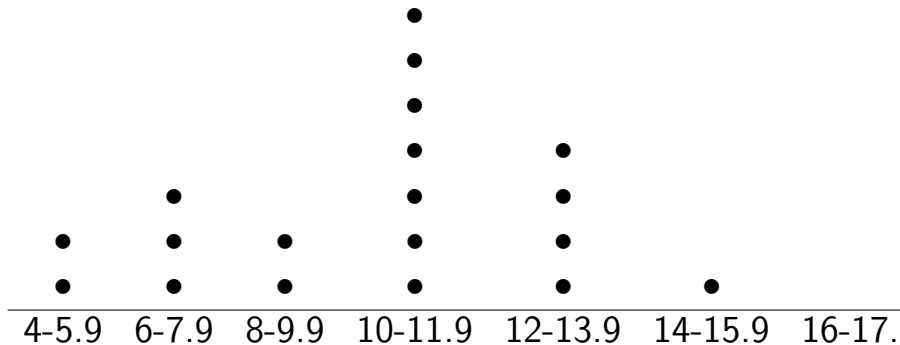


Ogive



Frequency Polygon of a cumulative frequency

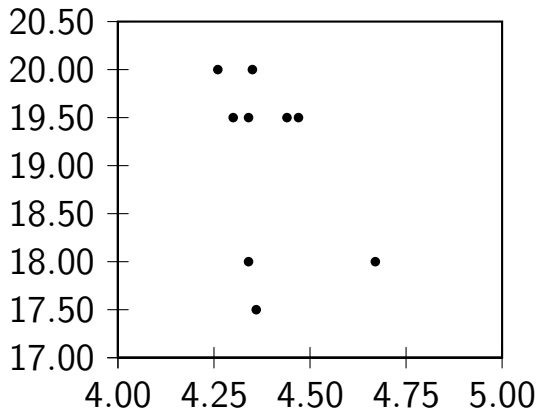
Dot Plot



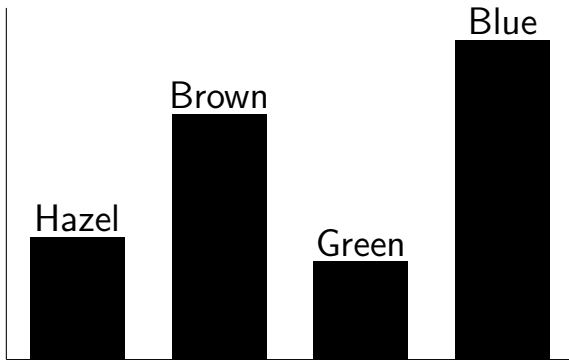
Scatter Plot

30m	4.35	4.75	4.47	4.34	4.89	4.36	4.30	4.44	4.67	4.26	4.34
Vertical	20.0	14.5	19.5	18.0	12.5	17.5	19.5	19.5	18.0	20.0	19.5

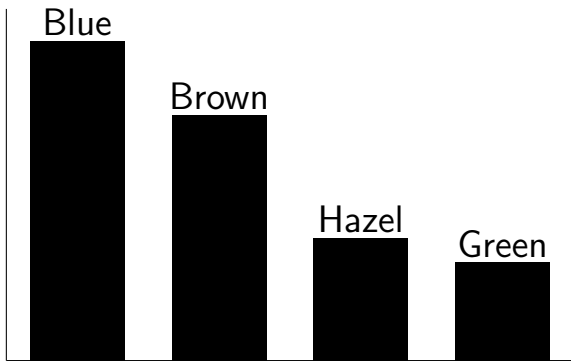
Scatter Plot



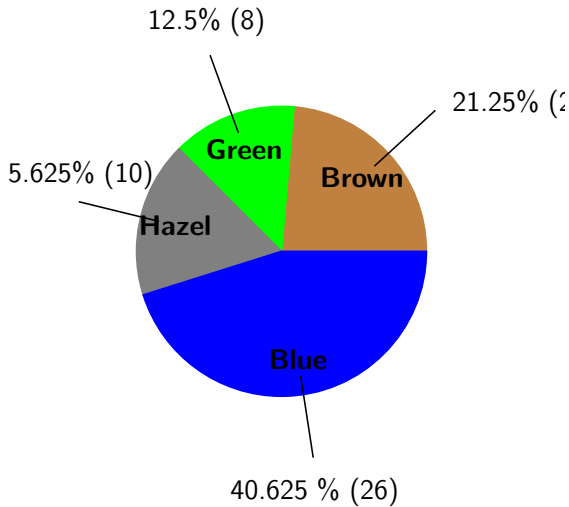
A Bar Chart of Eye Color Data



Pareto

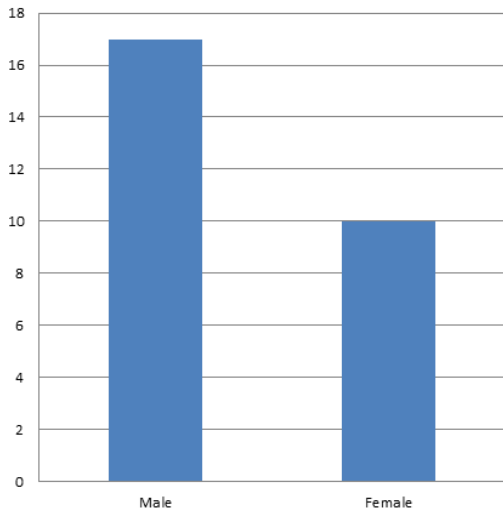


Pie Chart

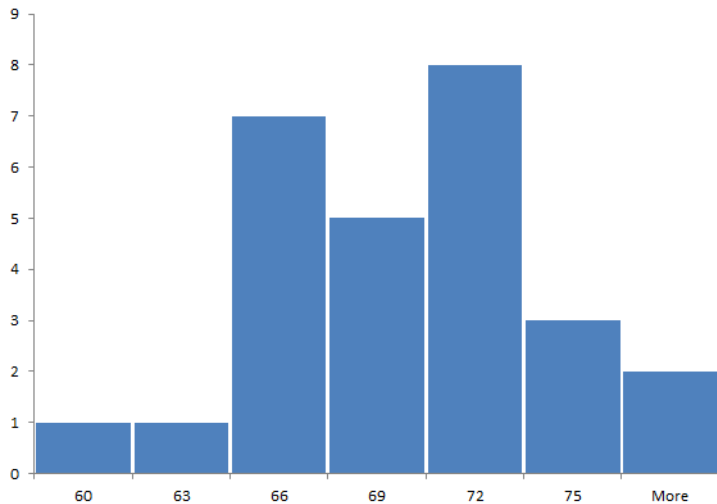


Your Data

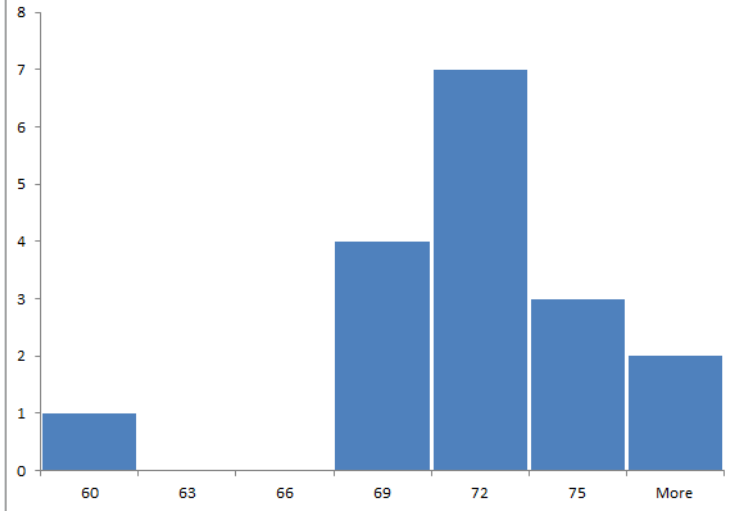
Gender



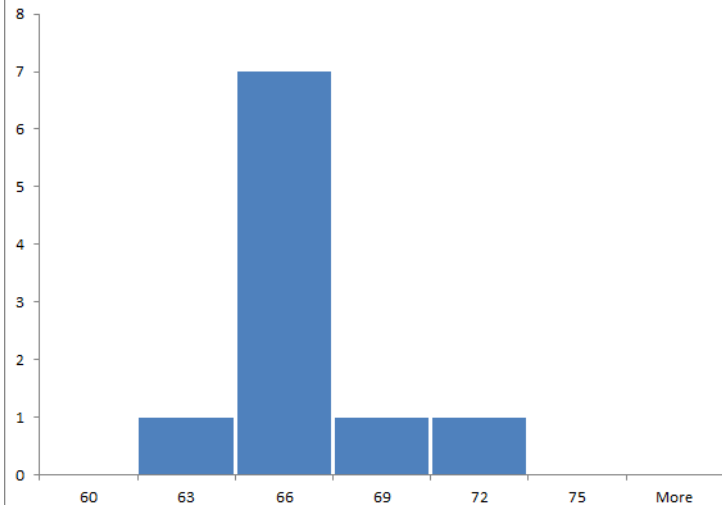
Heights of 27 College Students



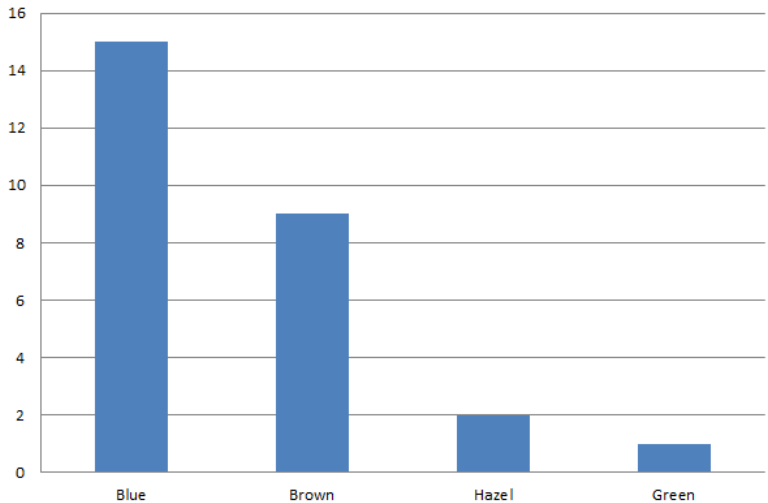
Male Heights



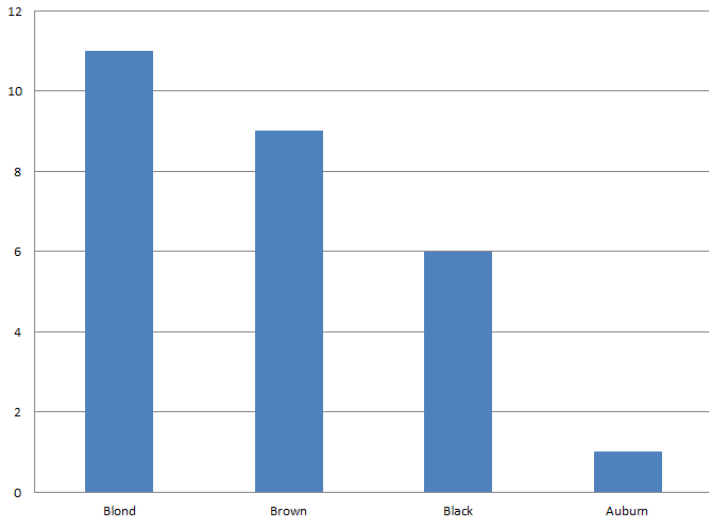
Female Heights



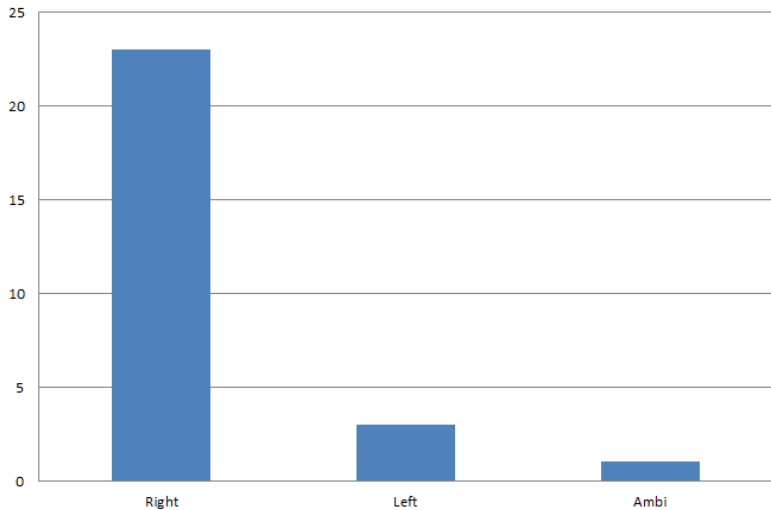
Eye Color



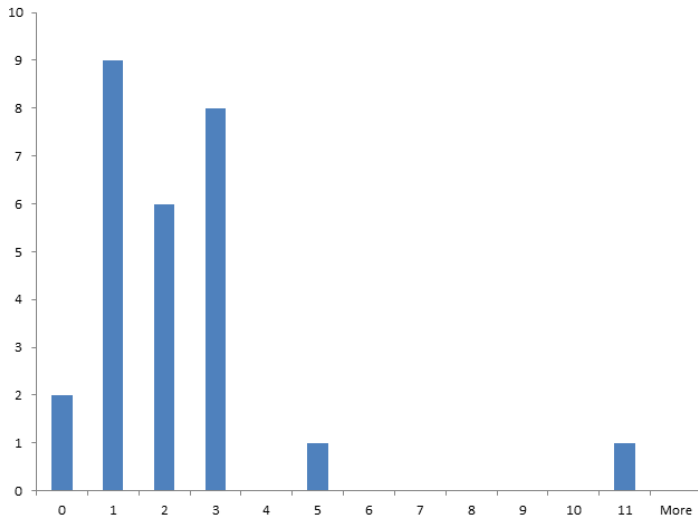
Hair Color



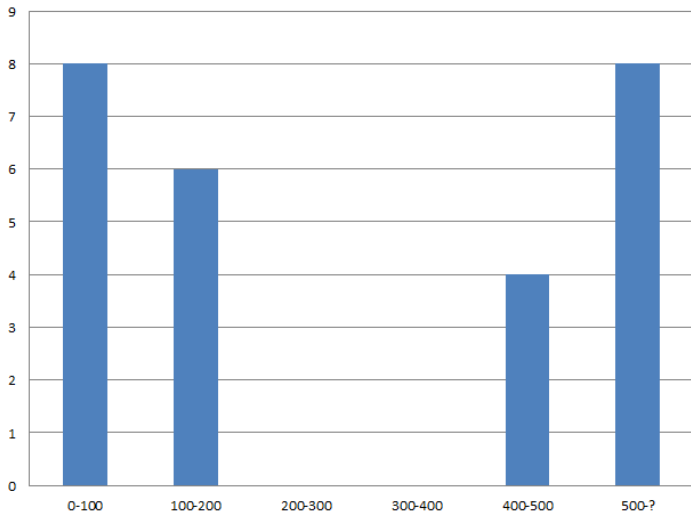
Handedness



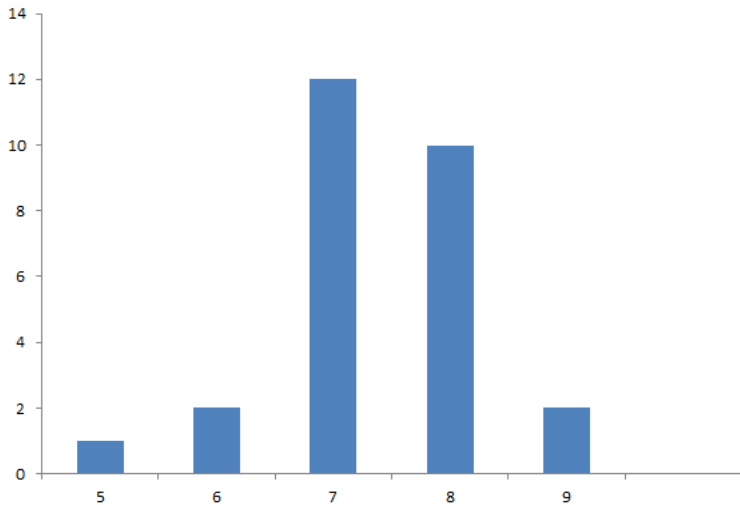
Siblings



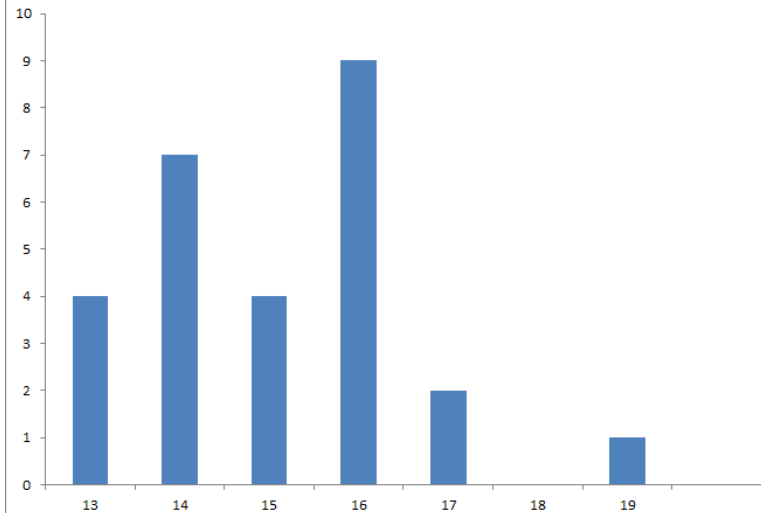
Distance to Home



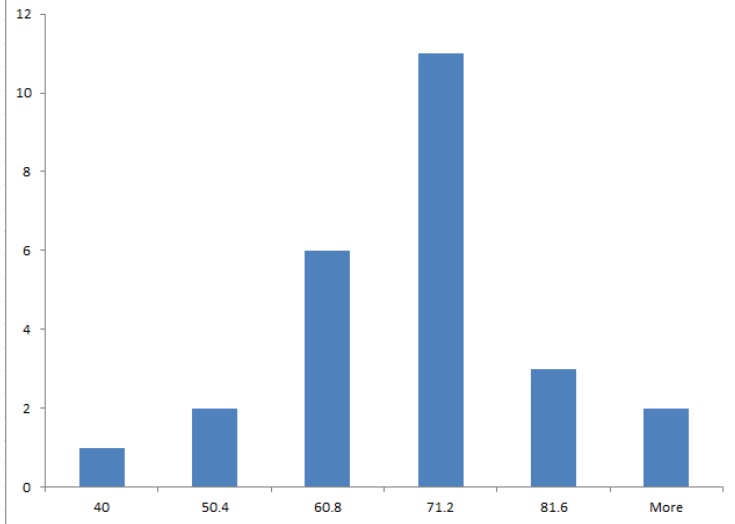
Hours of Sleep



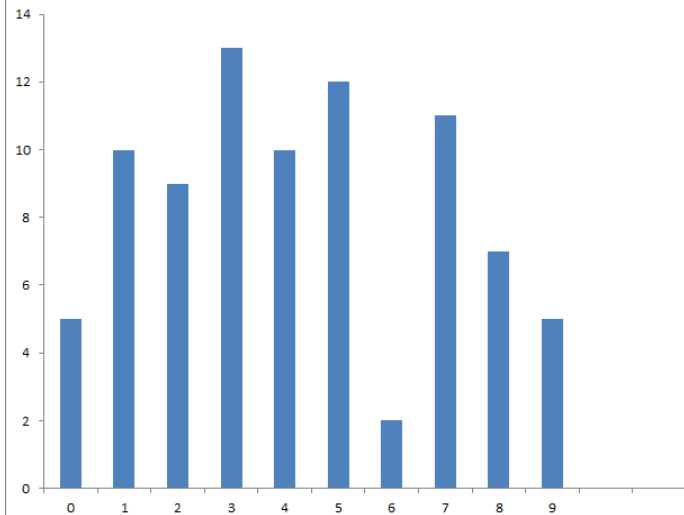
Credit Hours



Pulse



Random Digits



Averages of 4 Digits

