Psychology Computer Lab
PsychSim

Name _____
Section _____
Date _____

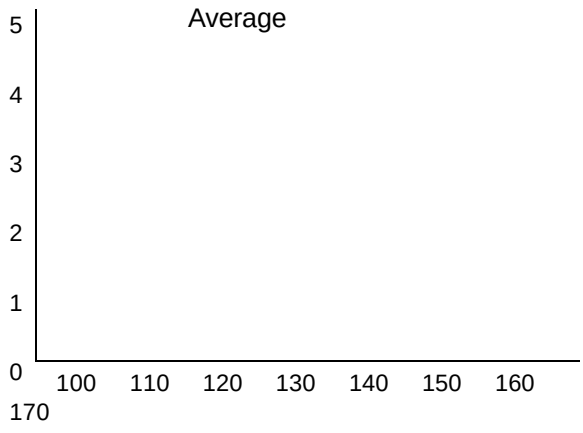
Correlation

This program demonstrates the use of scatterplots and clarifies the meaning of the correlation coefficient computed from them.

1. Suppose that, for each of six different dormitories, you measure two variables: a) room size in square feet, and b) student satisfaciton with dorm life. Using this example, explain the difference between the three possible outcomes: a positive correlation, a negative correlation, or no correlation between the two variables.

2. Suppose that the results of your study were as follows: Plot these results on the graph below. (Rating of 5 - high satisfaction, 1 = low satisfaction)

Dorm	Room Size	Average Satisfaction Rating
U	120	3
V	140	5
W	150	4
X	110	2
Y	160	5
Z	130	3



3. Does the graph show a positive correlation, a negative correlation, or no correlation? Do these results prove that room size causes a change in student satisfaction with dorm life? Why or why not?

3. Plot the information given for this study on the graph below.