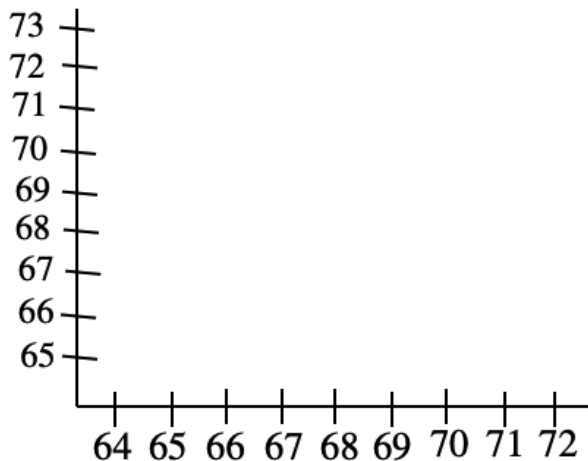


A student wonders if tall women tend to date taller men than do short women. She measures herself, her dormitory roommate, and the women in the adjoining rooms; then she measures the next man each woman dates. Here are the data (heights in inches):

Women	66	64	66	65	70	65
Men	72	68	70	68	71	65

1. Is there a clear explanatory variable and response variable in this setting? If so, tell which is which. If not, explain why not.

2. Make a well-labeled scatterplot of these data. (REMEMBER TO NAME AXES!)



3. How would you describe the form of the relationship?

4. Based on the scatterplot, do you expect the correlation to be positive or negative? Near ± 1 or not? Explain

5. Use your calculator to find the correlation r between the heights of the men and women. Do the data show that taller women tend to date taller men? Explain.

6. How would r change if

- all the men were 6 inches shorter than the heights given in the table?

- heights were measured in centimeters rather than inches? (There are 2.54 centimeters in an inch.)

**** Review HW problems from 3.1 A and 3.1 B *******

Review the Facts about Correlation from your notes