

Name: \_\_\_\_\_

Date: \_\_\_\_\_

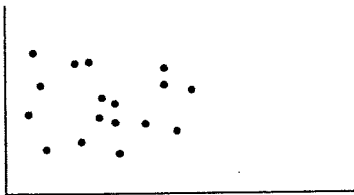
Hour: \_\_\_\_\_

### Homework 1.6- Scatter Plots and Correlation

1.) Discuss how a correlation provides you with information about the variables.

For numbers 2- 5, describe the correlation for the following scatter plots as strong positive, strong negative, or little to none. Explain the reason for your answer.

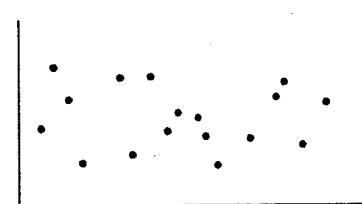
2.)



3.)



4.)



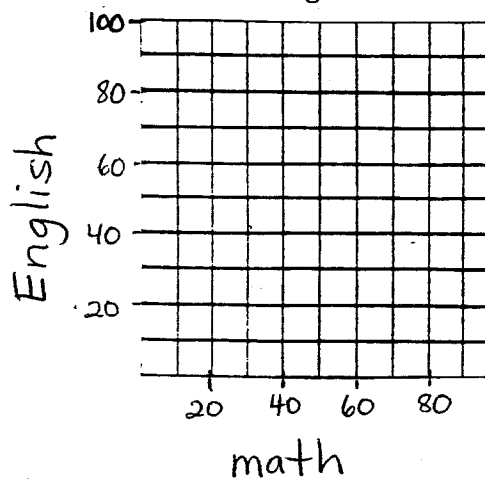
5.)



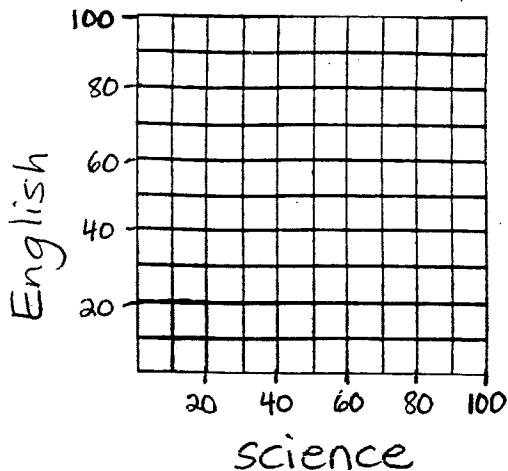
For numbers 6 and 7, use the table below.

Student	A	B	C	D	E	F	G	H	I	J
English	50	63	70	48	70	52	43	78	70	65
Math	61	40	80	21	62	54	20	33	75	51
Science	70	38	92	50	68	41	38	20	73	48

6.) Graph the student scores on Math against the scores on English, and explain the correlation.

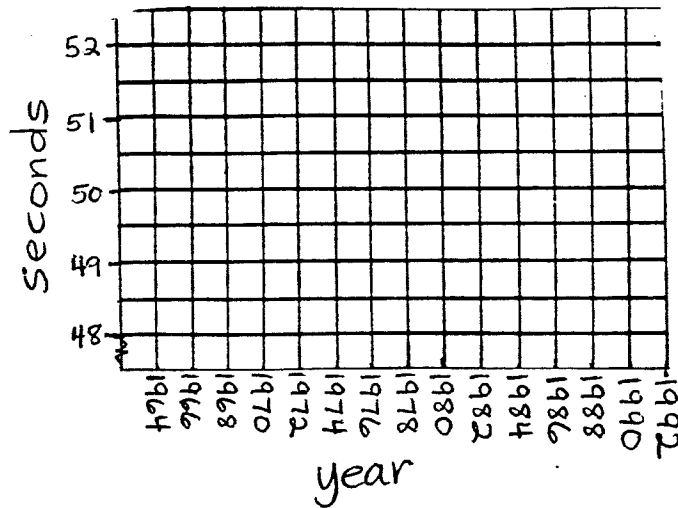


7.) Graph the student scores on Science against the scores on English, and explain the correlation.



8.) Make a scatter plot of the following data for the women's 400 meter run in the Olympics.

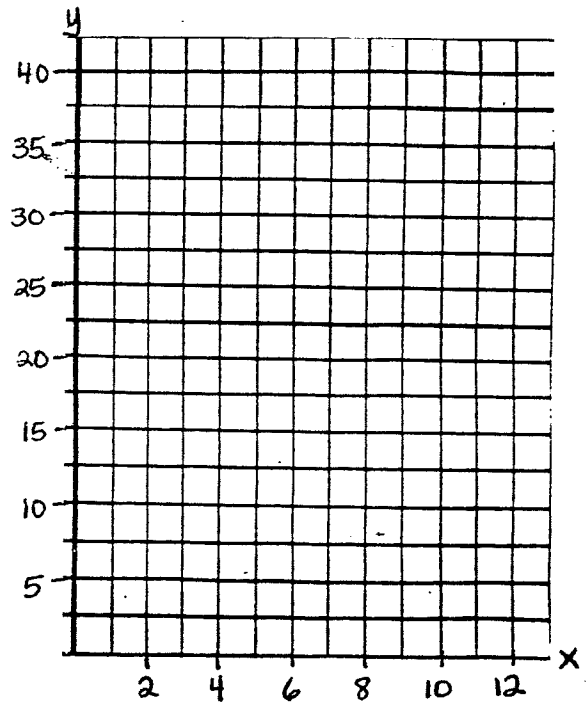
Year	1964	1968	1972	1976	1980	1984	1988	1992
Seconds	52.00	52.00	51.08	49.29	48.88	48.83	48.65	48.83



9.) Describe the correlation.

10.) Make a scatter plot from the data. Use a straightedge to draw a line that best fits the points on the scatter plot.

X	0	3	6	9	12
Y	14	20	26	32	38



11.) What is the relationship of the points to the line?

