

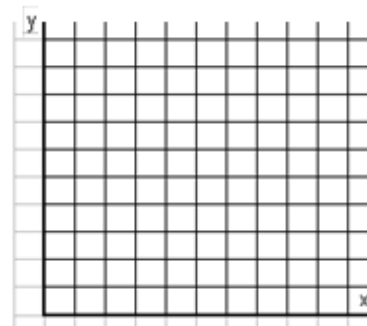
*Objectives:

*scatter plot:

*Correlation				
*Strong Negative Correlation	*Weak Negative Correlation	*No Correlation	*Weak Positive Correlation	*Strong Positive Correlation

Got It? 1. a. The table shows the numbers of hours students spent online the day before a test and the scores on the test. Make a scatter plot. How would you describe the correlation?

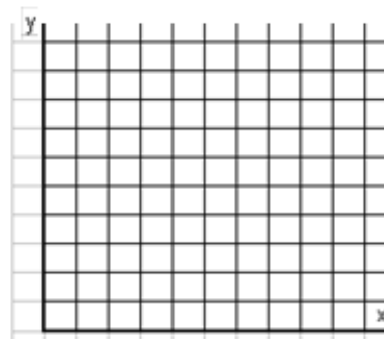
Computer Use and Test Scores												
Number of Hours Online	0	0	1	1	1.5	1.75	2	2	3	4	4.5	5
Test score	100	94	98	88	92	89	75	70	78	72	57	60



*trend line:

Got It? 2. The table shows median home prices in California. What is an equation for a trend line that models the relationship between time and home prices?

California Median Home Prices							
Year	1940	1950	1960	1970	1980	1990	2000
Median Price (\$)	36,700	57,900	74,400	88,700	167,300	249,800	211,500



*line of best fit:

*linear regression:

*correlation coefficient, r :

*Steps to Finding the Equation for the Line of Best Fit (Graphing Calculator)

*Step 1:

*Step 2:

Got It? 3. The table lists the cost of 2% milk. Use a scatter plot to find the equation of the line of best fit. Based on your linear model, how much would you expect to pay for a gallon of 2% milk in 2025?

Cost of 2% Milk						
Year	1998	2000	2002	2004	2006	2008
Average cost for one gallon (\$)	2.57	2.83	2.93	2.93	3.10	3.71

Inclass: p. 96 #10, 12

Homework: p. 96 #7-11(odd)

Interactmath: #8, 11