Name _____ Date _____

Statistics Review – Final Exam Math 8

1. The two-way table shows the results of a football team's home games over the last five seasons and whether the stadium roof was open or closed.

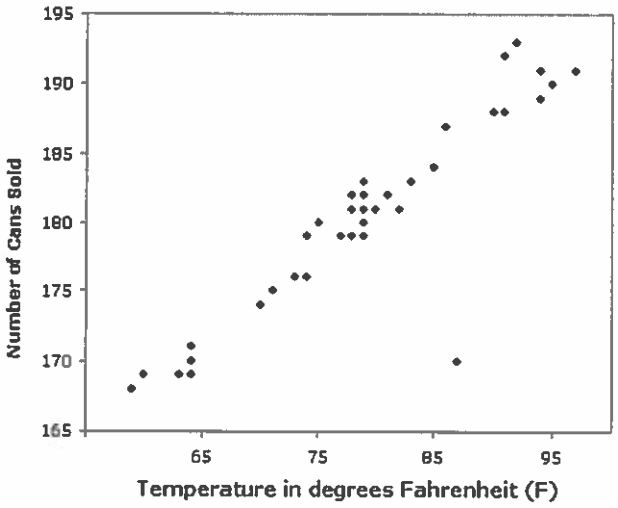
		Stadium Roof	
		Open	Closed
Result	Win	25	7
	Loss	8	0

How many home games did the team win?

How many home games did the team lose with a closed roof?

2. The scatter plot below represents the number of cans of soda sold at different temperatures throughout the spring/summer.

a) Describe the association between the number of cans of soda sold and the temperature.



b) Circle and label any of the following:
   a. Clusters
   b. Outliers
   c. Gaps

3. Identify the data sets as having a positive, a negative, or no correlation.

a. The number of hours a person has driven and the number of miles driven

b. The number of siblings a student has and the grade they have in math class

c. The age of a car and the value of the car

d. The number of weeks a CD has been out and the total sales

e. The number of years a person went to school and their income

f. The number of songs downloaded on your i-pod and the amount of memory available

g. The amount of time spent on the computer instant messaging your friends and the number of computers in your house

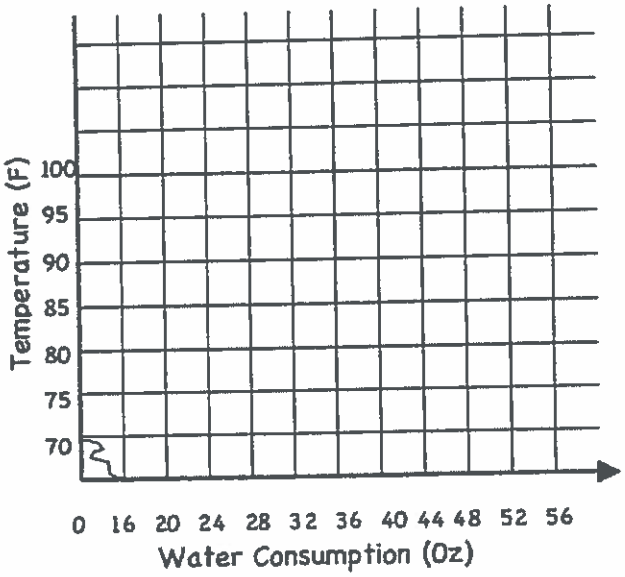
h. The age of a house and the number of people living in the house

8. Assume that during a three-hour period spent outside, a person recorded the temperature and their water consumption. The experiment was conducted on 7 randomly selected days during the summer. The data is shown in the table below.

a. Create a scatter plot with the data.

b. What is the correlation of this scatter plot? (Hint: Do not use the day on the scatter plot.)

Day	Temp-erature (F)	Water Consumption (oz)
1	99	48
2	85	27
3	97	48
4	75	16
5	92	32
6	85	25
7	83	20



9. A history teacher asked her students how many hours of sleep they had the night before a test. The data below shows the number of hours the student slept and their score on the exam. Plot the data on a scatter plot.

Hours Slept	8	7	7	8	6	5	7	4	9	7
Test Score	83	86	74	88	76	63	90	60	89	81