#86

Name_____ Date_____

Mrs. Roumbos 8R Period_____

Correlation Homework

In questions 1-3, determine if the data sets have a positive,a negative, or no correlation (association)

1) The number of hours a plane is in flight and the number of miles flown.

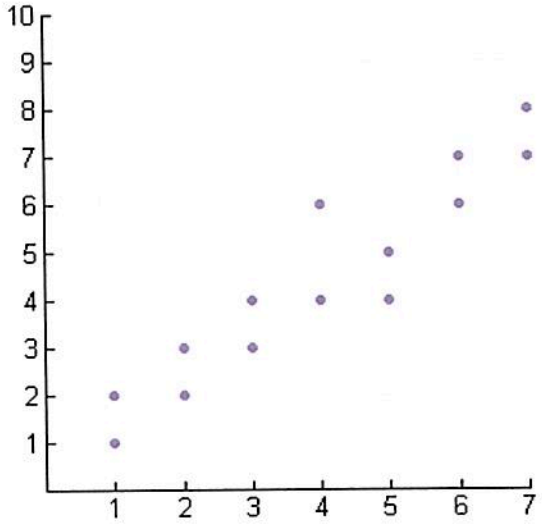
2) The number of hours in flight and the number of passengers.

3) The number of hours in flight and the gallons of fuel remaining.

4) The correlation seen in the graph at the right would be best described as:

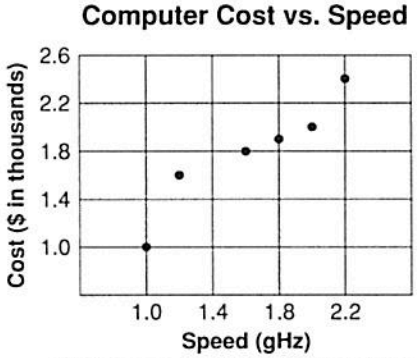
Choose:

a) high positive correlation
b) low positive correlation
c) high negative correlation
d) low negative correlation



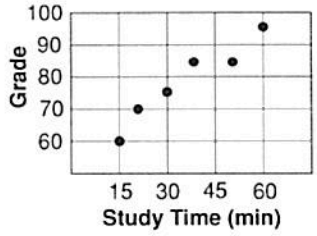
Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. Which of the statements is true about the data displayed in the scatter plot?



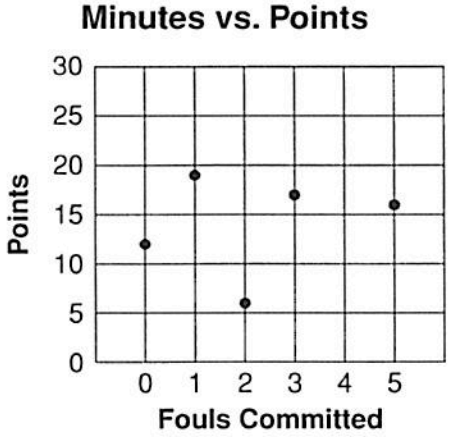
   a. It shows a positive correlation.
   b. It shows a negative correlation.
   c. It shows no correlation.
   d. As speed increases, cost decreases.

2. Which of the statements is true about the data displayed in the scatter plot?



   a. It shows a positive correlation.
   b. It shows a negative correlation.
   c. It shows no correlation.
   d. As study time increases, grade decreases.

3. Which of the statements is true about the data displayed in the scatter plot?



   a. It shows a positive correlation.
   b. It shows a negative correlation.
   c. It shows no correlation.
   d. As fouls increase, points decrease.

4. Which situation best describes a positive correlation?
   a. The amount of gasoline in a car and how far the car has traveled
   b. The temperature on Tuesdays
   c. The size of a sundae and the amount of calories it contains
   d. The size of a snowball and how long it has been melting

5. Which pair of data sets has a negative correlation?
   a. the total distance driven and the amount of tread on the tires
   b. the number of miles driven and the amount of gas used
   c. the number of passengers in a car and the number of driver's licenses
   d. the speed of the car and the rotation rate of its tires