🏠 Scatterplots Test-Study Guide

Directions: Read all directions clearly. You may show work on a separate sheet of paper. Write your answers on THIS paper. Double check all answers.

CIRCLE whether the graph/scenario represents a POSITIVE, NEGATIVE, or NO CORRELATION. Then EXPLAIN your answer.

1)

Positive   Negative   None

Explain:

3)

Number of school assignments due and hours of sleep you get

Positive   Negative   None

Explain:

Answer the following in a COMPLETE sentence (1 point each)

5) In your own **words**, explain what a scatterplot is used for.

7)

Draw the line of best fit.

Then, use your line of best fit to estimate how many visitors there would be at 90°F.

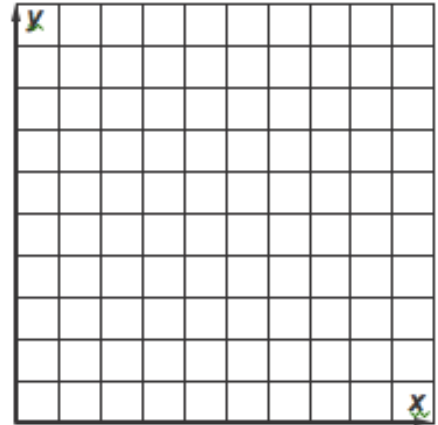8) Use the table to answer the questions in part a-c (1 point for each part)

Time (min)	1	3	4	5	7
Points scored	1	4	5	8	9

a) Plot a scatter plot of the following table. *Make sure you <u>label your axes</u> and plot the data correctly!*

b) Draw a line of best fit.

c) Pick 2 points on your line: (_____, _____) & (_____, _____)

d) Find the SLOPE between your 2 points:

Slope (m): _____

e) Find the y-intercept:

y-intercept (b): _____

f) Equation (y=mx+b): _____

g) Use your equation to find out about how many points the team would score after 15 minutes. Be sure to write your answer in a complete sentence.