

Table Number: _____

Group Name: _____

Group Members: _____

Guessing Correlations

- Open the link on our Blackboard course webpage called *Web Applet: Guessing Correlations Activity 3*.
- Click the **“New Plots”** button.
- Match the four correlations to the four scatterplots. When you think you have correctly matched them, click on **“Answers.”**
- Click **“New Plots”** to continue matching correlations to scatterplots. Repeat this process 10 times and record your overall percentage of correct “guesses” here: _____

1. Go through the *Guessing Correlations* exercise several times. For each scatterplot think about whether or not the relationship between the two variables could be characterized as linear. For one of the exercises, make a rough sketch of each of the scatterplots in the appropriate column below and next to it write the correlation. Your sketch may either be rough hand sketch or a result of using the print screen then paste features of your computer.

Scatterplots that match to “Linear” (with correlation)	Correlations with sketch that match to “Non-Linear” Scatterplots

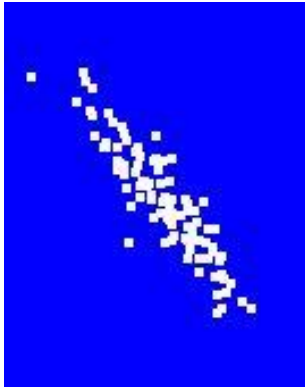
Go through the *Guessing Correlations* exercise several more times. Pay attention to the trend of the scatterplot. Is the trend from lower-left to upper-right? From upper-left to lower-right? Use your observations to answer the following questions.

2. When the correlation is positive, what does the scatterplot look like?

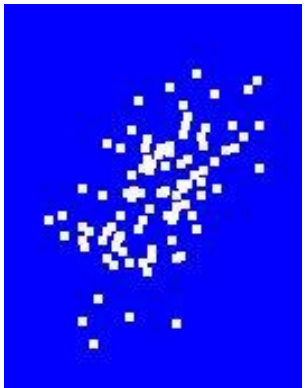
3. When the correlation is negative, what does the scatterplot look like?

4. When were the correlations and scatterplots easy to match? When were they more challenging to match?

5. Use the knowledge you acquired matching correlations and scatterplots to guess the correlations associated with the following two plots.



$r =$ _____



$r =$ _____

Reference