Name:

Date:

School:

Facilitator:

4.06 Scatter Plots and Linear Functions

Total Points: 35

**Use the interactive scatter plot grid found at the following link to create your own scatter plot for each problem below:**

<http://illuminations.nctm.org/Activity.aspx?id=4186>

**If the link does not take you to the interactive activity when you click, copy and paste the link into the URL bar.**

**Refer to the course information section (in Unit 0) if you need help taking a screenshot.**

1. Click on the “Scatter Plot” grid several times to plot data points. Look for a pattern. Can you see a trend emerging in the scatter plot data? Take a screen shot and paste it below. Then click "Reset" to clear the data.

Screenshot:

Can you see a trend emerging in the scatter plot data?

1. Select “Show line of best fit” and create a scatter plot with a line of best fit showing a positive correlation. Take a screen shot and paste it below. Then click "Reset" to clear the data.

Screenshot:

1. Select “Show line of best fit” and create a scatter plot with a line of best fit showing a negative correlation. Take a screen shot and paste it below. Then click "Reset" to clear the data.

Screenshot:

1. Select “Show line of best fit” and create a scatter plot with a line of best fit showing little or no correlation. Take a screen shot and paste it below. Then click "Reset" to clear the data.

Screenshot:

1. Identify the terms that match the given definitions related to scatter plots:
2. : A line on a scatter plot which can be drawn near the points to more clearly show the trend between two sets of data
3. : The relationship between two sets of data; can show a positive correlation, a negative correlation, or no correlation
4. : A graph that relates data from two different sets
5. : Both sets of data increase together; the line of best fit points up and to the right
6. : The two data sets are not related
7. : One set of data decreases as the other set of data increases; the line of best fit points down and to the left

List of terms:

* Line of best fit / trend line
* Negative correlation
* No correlation
* Positive correlation
* Scatter plot
* Trend