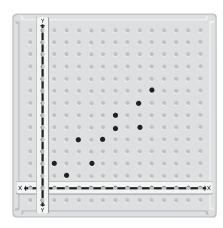
Use an XY Coordinate Pegboard to model the scatter plot shown. Write the ordered pairs that are graphed. Identify a correlation as positive or negative. Explain your answer.

1.



х	1	2	3	4	5	6	6	8	8	9
у										

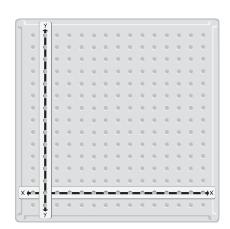
This scatter plot shows a _____ correlation.

Using an XY Coordinate Pegboard, model the data given in the table. Does the scatter plot show a positive or negative correlation? Explain.

2.

Х	1	2	3	4	5	7	9
у	8	5	5	6	3	2	1

This scatter plot shows a _____ correlation.



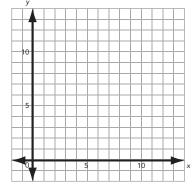
Graph each set of ordered pairs. What type of correlation is shown?

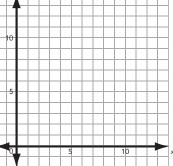
3.

х	1	3	5	6	10	12
У	13	11	6	4	3	1

4.

х	4	5	8	9	11	12
у	3	3	8	9	10	14



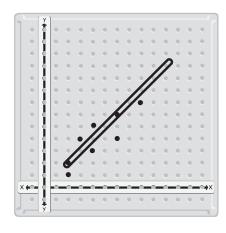


Name	
Challenge! Describe the appearance of a scatter plot that shows a negative correlation. What does a negative correlation mean in terms of the x- and y-values? Describe the appearance of a scatter plot that shows a positive correlation. What does a positive correlation mean in terms of the x- and y-values?	
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Use an XY Coordinate Pegboard to model the scatter plot shown. Write the equation for the line of best fit in the form y = mx + b.

1.



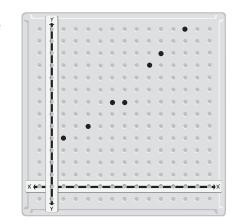
If the line extended to the y-axis, where would it intersect?

What is the slope of the line? _____

The equation for the line of best fit is

Using an XY Coordinate Pegboard, model the scatter plot shown. Write the equation for the line of best fit in the form y = mx + b.

2.



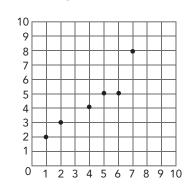
For the line of best fit, b =.

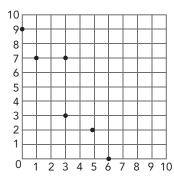
For the line of best fit, m =______ .

The equation for the line of best fit is

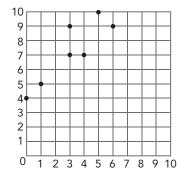
Write the equation for the line of best fit for each scatter plot.

3.





5.



Name	
Challenge! How can you tell from looking at the points in a scatter plot if the line of best fit has a positive or negative slope? Draw a picture to help.	
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Use an XY Coordinate Pegboard to plot the points and create a scatter plot. Find the line of best fit on your pegboard. Sketch the line of best fit.

1.

х	у
1	2
3	4
4	3
6	4
6	6
8	9

Using an XY Coordinate Pegboard, plot the data in the table. Find the line of best fit. Make predictions to complete the table.

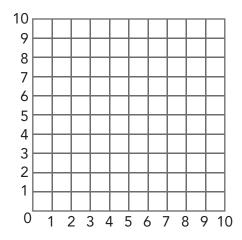
2.

x	у
2	1
4	3
5	5
6	4
7	6
8	7

Make a scatter plot of the data. Find the line of best fit. Make predictions to complete the table.

3.

х	у
1	2
3	2
4	4
5	6
8	8
10	10



Name
Challenge! How do you decide where to place the line of best fit? Can there be more than one line of best fit? Explain.