Name: _____ Period: _____ Date: _____

BINGO! : Analyzing Scatter Plots **Math 8**

Have you ever wondered if there is a trend in data?
Scatter plots are used to compare two variables on a coordinate plane. They are a series of data points that may not make a perfect line, but they can show a trend in data.

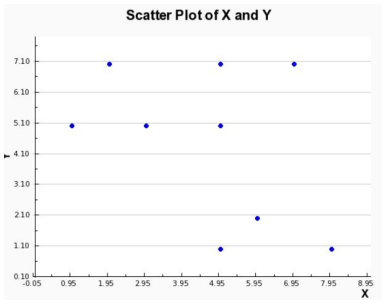
Create a list of key terms and words that help describe data and analyze scatter plots.

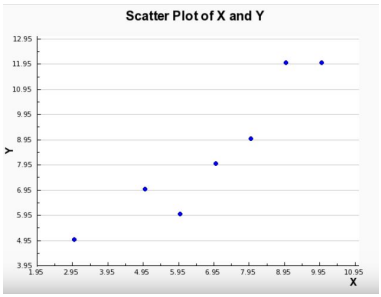
List of Key Terms:

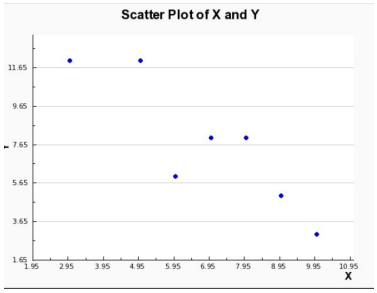
1.) Label the graphs below with :

- Positive Correlation
- Negative Correlation
- No Correlation

Note to designer, create your own scatter plots similar to those below, created in mathcracker.com







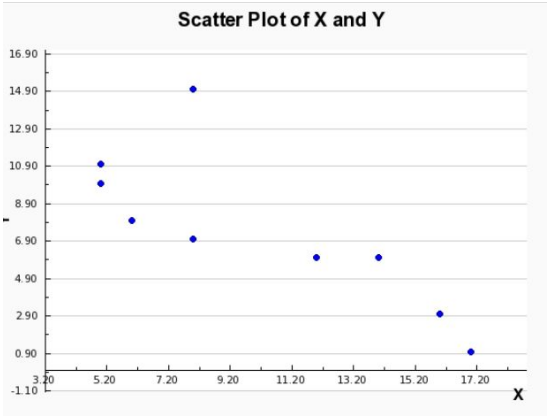
_____ _____ _____

2.) Describe and sketch the difference between a strong positive correlation and a weak positive correlation.

Name: _____ Period: _____ Date: _____

BINGO! : Analyzing Scatter Plots **Math 8**

3.) Circle the outlier on the graph below Note: create a scatter plot similar to below, maybe include more points and leave the outlier (high dot) so it is obviously off the trend



4.) Which might be an example of a negative correlation? Why?

A.) Car price and age of car from 1-10 years

B.) Baby weight and age in months, from 1-10 months

5.) Which is more likely to have no correlation? Why?

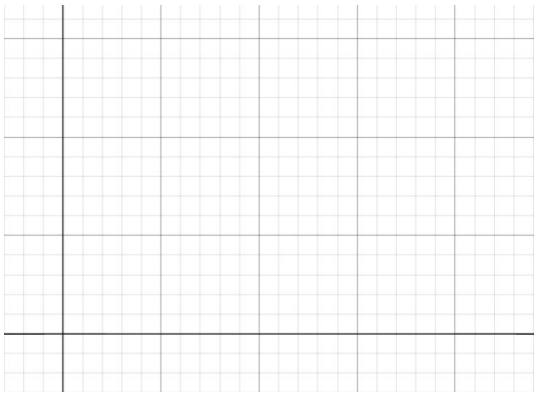
A.) Shoe size and birthday month

B.) Number of shots in a basketball game and number of baskets made

Name: _____ Period: _____ Date: _____

BINGO! : Analyzing Scatter Plots **Math 8**

6.) Create a graph of the data below and then analyze the scatter plot.
Be sure to label the axes and place the data points

AGE (years)	Number of times they asked for help	GRAPH
6	12	
8	12	
10	10	
12	7	
14	5	
16	3	

How would you analyze the scatter plot? Use keywords

Name: _____ Period: _____ Date: _____

BINGO! : Analyzing Scatter Plots **Math 8**

Bingo Cards - Link and lists

Bingo Instructions:

- Each bingo card has terms and keywords to help analyze scatter plots.
- When you see the graph, choose the BEST term to describe that scatterplot.
- Be careful, because there are strong correlations and weak correlations as well as 1 or 2 outliers, so look closely at the graph before you mark your board!

PDF of 8 versions of Bingo cards here

B	I	N	G
Horizontal Trend	Gap	No Association	Perfect Negative Association
Free!	Weak Negative Association	Linear Trend	Nonlinear Trend
Cluster	Perfect Positive Association	2 outliers	Weak Positive Association
Strong Negative Association	Strong Positive Association	1 outlier	Line of Best fit

Image of 1 card

To make your own Bingo Cards, follow the links below:
https://bingobaker.com/view/3319002 (This leads to the page I created cards in - we can print 8 cards free) Bingobaker

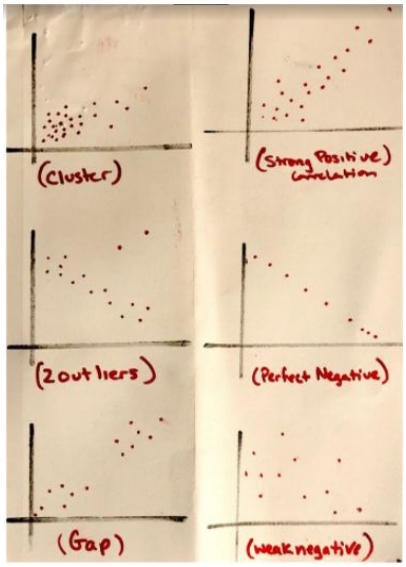
https://bingobaker.com/play/1a78999c19bd9578(This is a link to an example card that I made with terms, when generated, it should produce copies with unique sequences)

Name: _____ Period: _____ Date: _____

BINGO! : Analyzing Scatter Plots **Math 8**

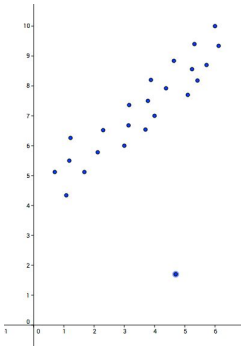
Note to designer, please use the images below to create full page sized call cards of scatter plots. It is good to have duplicates or graphs that show the same trend, but create plots that match each of the following terms:

1. 1 outlier
2. linear trend
3. line of best fit
4. perfect negative
5. nonlinear trend
6. perfect positive
7. weak negative
8. horizontal trend
9. free
10. cluster
11. weak positive
12. 2 outliers
13. strong positive
14. gap
15. no association
16. strong negative



similar to graphs shown here, photos taken by me. Do not include the label or term when showing the graph, the students will just see the graph image and need to find the term on their bingo card.

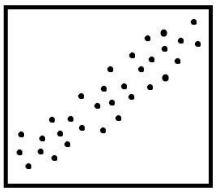
Here are examples from other sites. They are NOT LABELED FOR REUSE, but the designer can create scatter plots that look similar to those below.



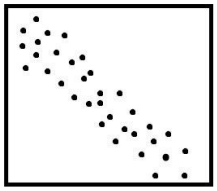
(outlier)

Name: _____ Period: _____ Date: _____

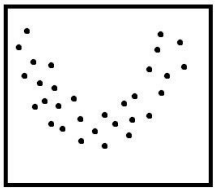
BINGO! : Analyzing Scatter Plots **Math 8**



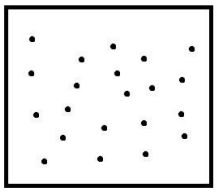
positive linear association



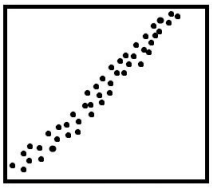
negative linear association



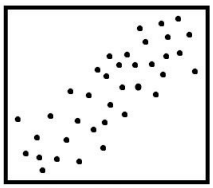
nonlinear association



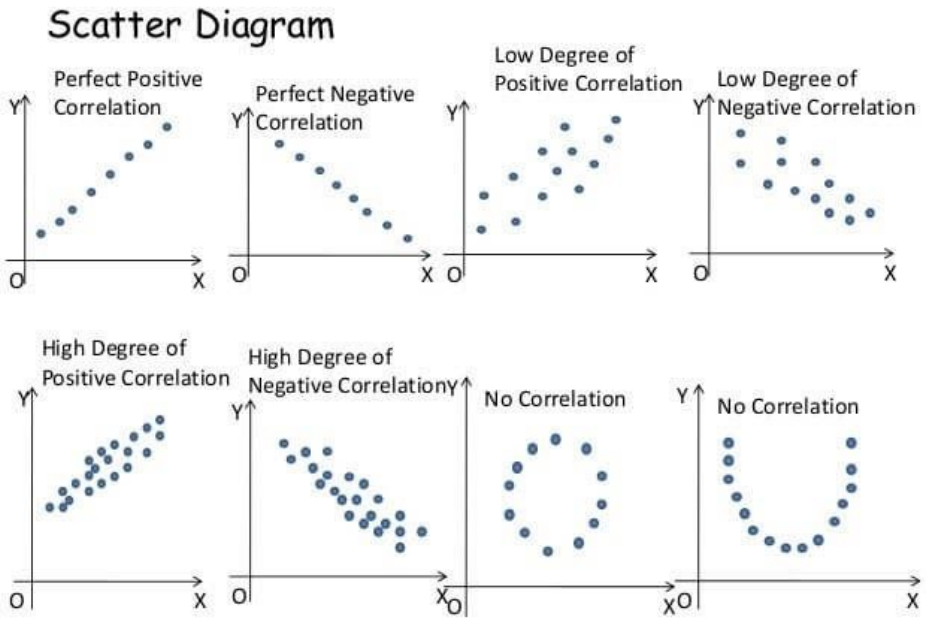
no association



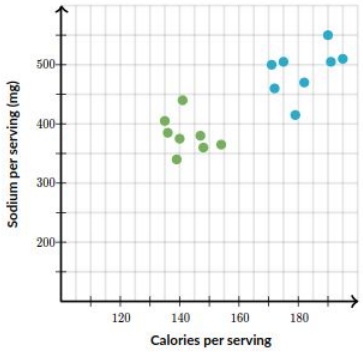
strong positive linear association



weak positive linear association



Perfect, weak, strong, and no association or nonlinear



Data source: *Consumer Reports*, June 1986, pp. 366-367

cluster