

Scatter Plots and Trend Lines

Guided Notes

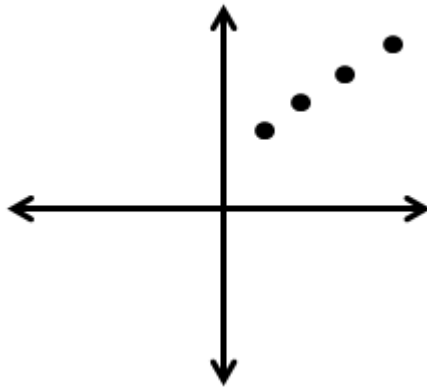
Scatter Plots

A **scatter plot** is a graph relating two different data sets by displaying them as ordered pairs. A scatter plot shows a particular trend or correlation.

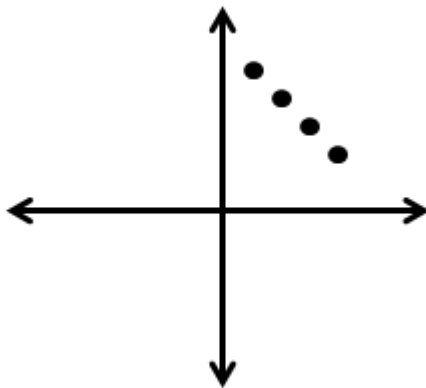
Trend or Correlation

The trend or correlation between two data sets represents the behavior of the graph of the two data sets.

- If the points on a scatter plot generally slope up in going from left to right, the correlation is **positive**.
- If the points on a scatter plot generally slope down in going from left to right, the correlation is **negative**.



Positive Correlation



Negative Correlation

Name: _____ Period: _____ Date: _____

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Problem 1: The table below compares the weight of boys at different ages. Make a scatter plot of the data. What type of correlation does the scatter plot show?

Age in Years	3	5	7	9	11
Weight in kg's	8	13	20	24	29

Trend Line

A trend line is a line drawn near the points on the scatter plot. We can write an equation of the trend using the points on the line and use the equation to estimate other values.

Name: _____ Period: _____ Date: _____

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Problem 2: Draw a trend line for the data in problem 1. What is the equation of the trend line?