



Objective: Scatter plots and the line of best fit


Homework ST-5 – Worksheet

Do Now: Find the mean and standard deviation using a TI:

75, 93, 98, 83, 91, 93, 86, 60, 68, 92, 79

Exam Prep: A set of data has a very large standard deviation


- A) the data is widely spread
- B) the data is not spread that much
- C) the mean is skewed left
- D) all of the above

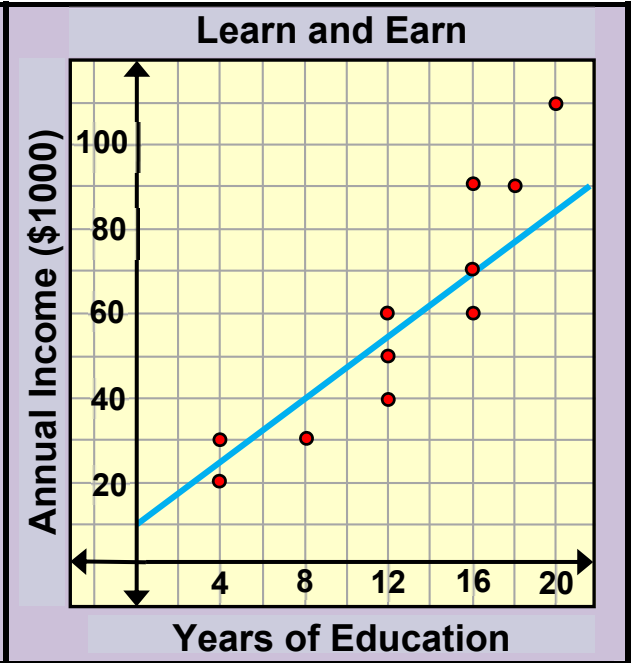


We continue our study of data with scatter plots. They are the most important type of showing how two sets of data are related to each other.

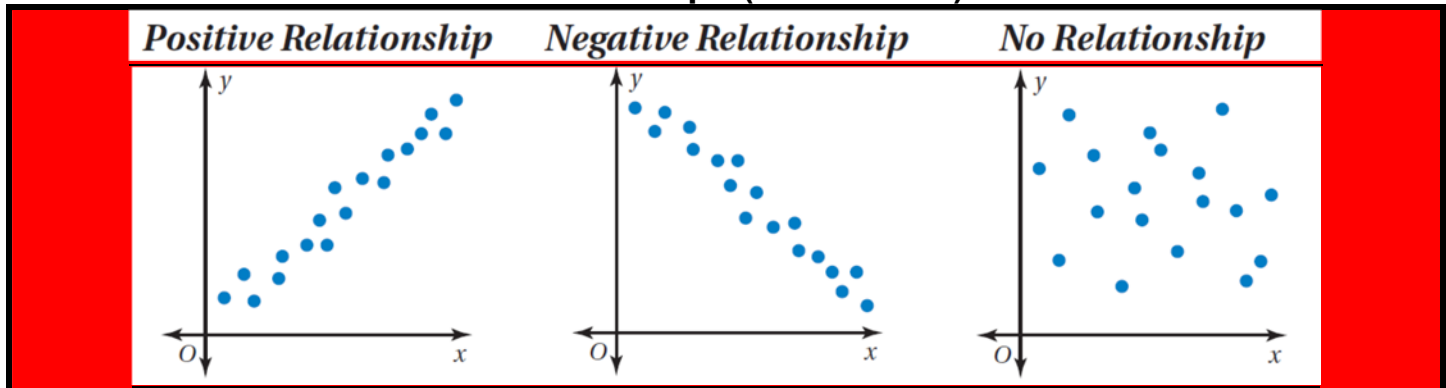
A **scatter plot** shows a relationship between two sets of data.

A **line of best fit** shows the best estimation of all plotted coordinate data. It's used to predict values not in the dataset.





Relationships (Correlation)

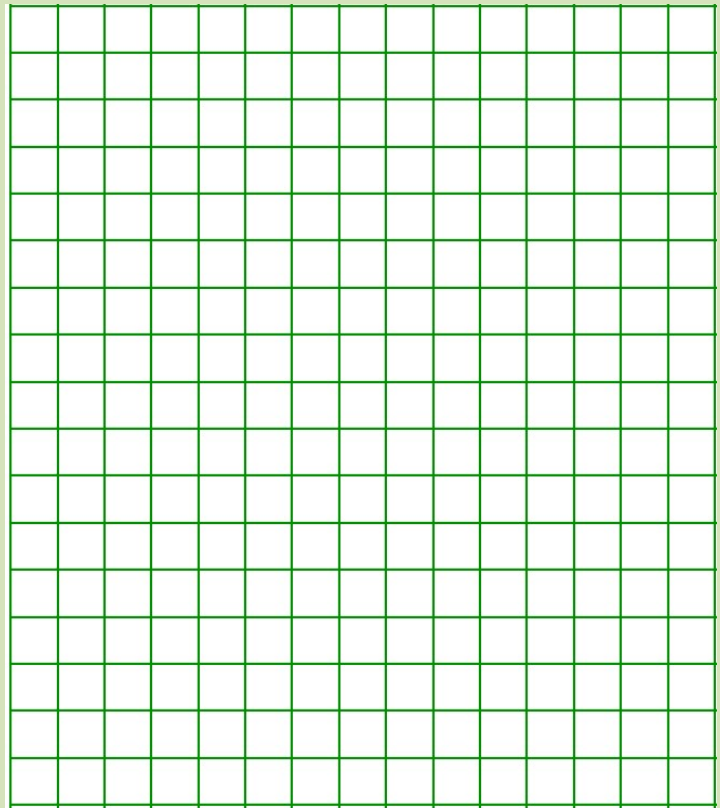


DVD Sales

Week x	Sales (millions) y
1	16
2	15
3	13
4	11
5	10
6	7
7	7
8	6

Make a scatter plot and draw a line of best fit.

What is the relationship?



Pets Owned and Owner Age

Owner Age x	Pets Owned y
34	4
12	3
21	2
53	2
70	1
11	3
30	0
35	4
46	6
15	2

Make a scatter plot and draw a line of best fit.

What is the relationship?

