

Definition/Description

A **scatter plot** is a type of graph that shows relationships between two things. These two things are called **variables**.

A scatter plot answers the question: Is there a relationship between ___ and ___? What is the relationship between ___ and ___?

COMPARE

What is the relationship? Is it positive? Negative? Is there no relationship? Is the trend upward? Downward?

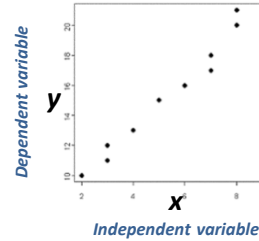
PREDICT

What will happen next? If this trend continues, what will the data likely look like?

INFER

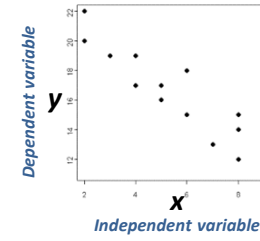
If this value were changed, what would likely happen?

Good Stuff to Remember



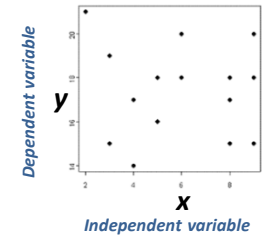
Positive Relationship
Positive Slope
Positive Association
Upward Trend
Positive Correlation

Values of both variables increase



Negative Relationship
Negative Slope
Negative Association
Downward Trend
Negative Correlation

Value of x increases but the value of y decreases



No Relationship
No Slope
No Association
No Trend
No Correlation

There is no pattern between the x and y values

Scatterplot

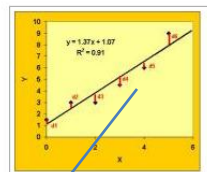
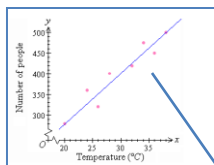
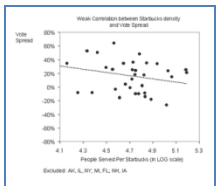
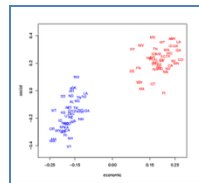
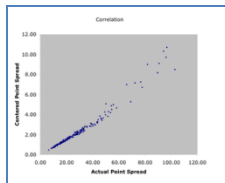
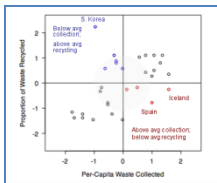
Scattergram

Scatter Diagram

Correlation Graph

Examples

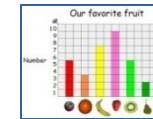
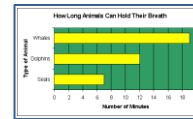
These are scatterplots.



Line of Best Fit (trend line)

Nonexamples

These are NOT scatterplots.



Number of Books Read	
Jeremy	5
Kevin	4
David	3
Kelly	2
Emily	1

Each stands for 5 books.



Player	Points	Percentage
Steph	22	44%
Cole	10	20%
Blake	8	16%
Page	6	12%
Chris	4	8%

