

10.1 Scatter Plots Day 2

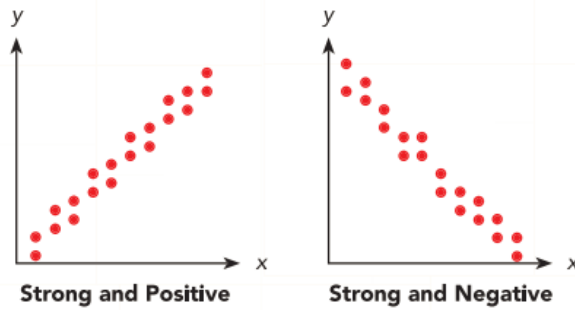
TSW

- Construct a scatter plot given two sets of quantitative data.
- Identify patterns of association between two sets of quantitative data.
- Identify outliers in a scatter plot

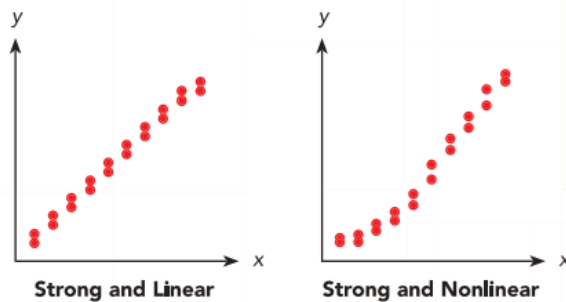
Vocabulary-Bivariate data with strong, weak or no Association

Strong Association- If variables have a strong enough association, you can probably determine whether the pattern is positive or negative, or linear or nonlinear

a) _____

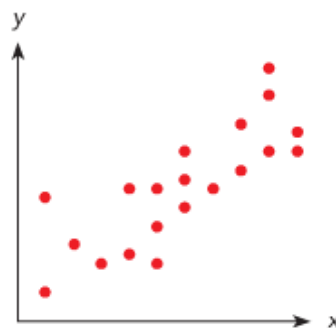


b) _____



Weak Association- If the two variables have a weak association, it is harder to tell

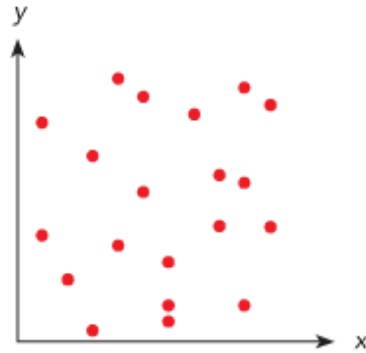
_____.



Weak Association

The data points cluster loosely in a pattern that is less predictable.

No Association- If the two variables have no association, you can conclude that the



No Association

The data points show no apparent trend at all. A pattern cannot be found.

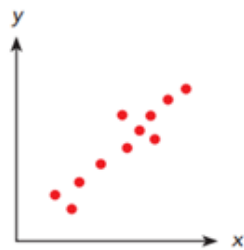
Example 2 Identify the association shown in the bivariate data.

Describe the association in the bivariate data shown in each scatter plot.

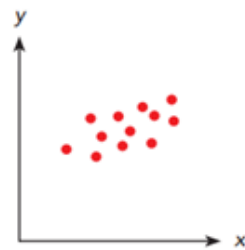
Solution



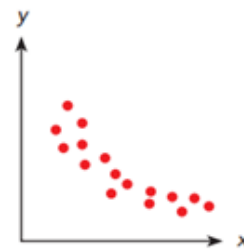
Graph A



Graph B



Graph C



Graph D

- Graph A:
- Graph B:
- Graph C:
- Graph D:

You can use these categories to describe the association between the two variables:

- Strong, weak, or no association
- Positive or negative association
- Linear or nonlinear association

