

Guess the Correlation

Learn / Courses / Introduction to Statistics in Python

Exercise

Guess the correlation

On the right, use the scatterplot to estimate what the correlation is between the variables x and y . Once you've guessed it correctly, use the **New Plot** button to try out a few more scatterplots. When you're ready, answer the question below to continue to the next exercise.

Which of the following statements is NOT true about correlation?

Instructions

50XP

☐ If the correlation between x and y has a high magnitude, the data points will be clustered closely around a line.

☐ Correlation can be written as r .

☐ If x and y are negatively correlated, values of y decrease as values of x increase.

☐ Correlation cannot be 0.

Submit Answer

Take Hint (-15 XP)

Course Outline

Guess the correlation

What's the correlation between x and y ?

☐ Display linear trendline

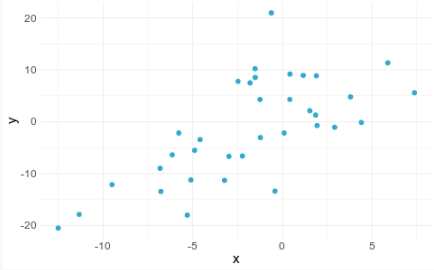
Submit

New Plot

Click submit to check your answer.

Daily XP 734

Scatterplot



Question:

Use the scatterplot to estimate the correlation between the variables x and y . Additionally, identify which of the following statements is NOT true about correlation.

Explanation of the Question:

The task involves understanding the concept of correlation, which measures the linear relationship between two variables. The correlation coefficient ranges from -1 to 1, with values near these extremes indicating strong relationships.

Answer:

Correct Answer: Correlation cannot be 0.

Explanation:

This statement is incorrect because a correlation of 0 indicates no linear relationship between the variables. Correlation measures the degree of a linear association, and it can be positive, negative, or 0. Other statements about correlation are true.