

# Day 6: Correlation and Regression Lines #2

## Objective

In this challenge, we practice calculating the slope of regression lines.

## Task

There are **2** series of data involving index numbers: *P* for price index and *S* for the commodity stock. The mean and standard deviation of *P* are **100** and **8**, respectively. The mean and standard deviation of *S* are **103** and **4**, respectively. The *R*<sup>2</sup> correlation coefficient between the two series is **0.4**.

With this data, obtain the *slope* of the regression line of *P* on *S*, correct to a scale of **2** decimal places.

## Output Format

- Your answer should be a single floating point/decimal number, correct to a scale of **2** decimal places. You can submit solutions in either of the **2** following ways:
1. Solve the problem manually and submit your result as *Plain Text*. In the text box below, enter a single floating point/decimal number.
  2. Submit an *R* or *Python* program, which uses the above parameters (hard-coded), then computes and prints the score.

Your answer should follow the format below, and must not contain any extra white space or newline characters:

1.14