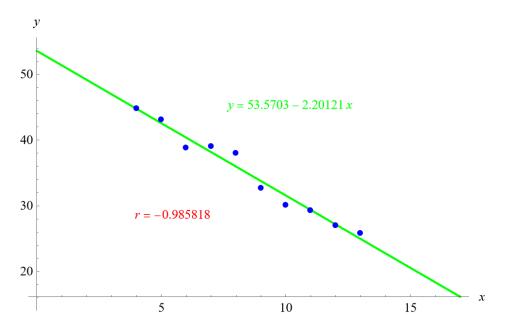
## Exercise 28

For the following exercises, use each set of data to calculate the regression line using a calculator or other technology tool, and determine the correlation coefficient to 3 decimal places of accuracy.

x	y
4	44.8
5	43.1
6	38.8
7	39
8	38
9	32.7
10	30.1
11	29.3
12	27
13	25.8

## Solution

Plot the following points on a graph: (4, 44.8), (5, 43.1), (6, 38.8), (7, 39), (8, 38), (9, 32.7), (10, 30.1), (11, 29.3), (12, 27), and (13, 25.8).



Mathematica's FindFit function gives

y = 53.5703 - 2.20121x,

and Mathematica's Correlation function gives r = -0.985818.

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