

*P.I. A2.S.4: Interpret within the linear regression model the value of the correlation coefficient as a measure of the strength of the relationship*

1. Describe two sets of data that you would expect to have a strong positive correlation.
2.
  - a. Make a table of data for a linear function. Use a graphing calculator to find the equation of a line of best fit.
  - b. What is the correlation coefficient for your linear data?

Answers may vary. Samples: the amount a family spends on food and the number of people in the family; the height of a tree and its age in years

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a. Answers may vary. Sample:

$x$	1	5	8	9	10
$y$	3	11	17	19	21

 $, y = 2x + 1$ 

[2] b. 1

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