

## Brief Article

The Author

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## Chapter 1

# Testing the relationship between numerical variables

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**Solution 1.5-1**

$$BAC = -0.012 + 0.017(9) = 0.14$$

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**Solution 1.5-2**

A moderately strong positive straight-line relationship between number of beers and BAC.

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**Solution 1.5-3**

The correlation coefficient is  $r = 0.9 = \sqrt{0.81}$  which is the  $r^2$  (coefficient of determination).