

Module # 3 Assignment

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A survey based on a random sample of 36 students from a junior college, reported the following:

Characteristic	Sample Mean	Sample Standard Deviation
Hours of Sleep	6.5 hours	1.5 hours
Number of Siblings	3 siblings	2 siblings

Required:

1. For each of the two characteristics reported above, calculate and interpret the 95% confidence interval of the population mean. All calculations (to two decimal places) must be shown. Please refer to the formulas, procedures and interpretations given in the PowerPoint presentation.
2. Select your response (a to e), and provide a 150 to 200 word justification, clearly stating and explaining any relevant formulas.

With reference to estimation in statistics, the larger the sample size:

- a. the wider the confidence interval
- b. the lower the degree of precision of the confidence interval
- c. a and b
- d. the smaller the standard error
- e. a and d

[NOTE: Upload your work as a single PDF file.](#)