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## Confidence Intervals - Quiz

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### Question 1

1/1 point (graded)

True or False: The confidence level of your confidence interval depends on your underlying distribution of your data.

☐ a. True

☒ b. False ✓

### Explanation

The confidence level of your confidence interval is whatever you want it to be. It represents your desired "degree of confidence". Another way of saying this is if we compute the interval in repeated samples, then  $\alpha$ -percent of the time, the interval will bracket the true mean. Note that the interval is random by virtue of random sampling; but the true mean is fixed.

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You have used 1 of 1 attempt

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#### [Assessing and Deriving Estimators](#)

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✓ Correct (1/1 point)

### Question 2

0/1 point (graded)

True or False: The bounds on the confidence interval you obtain are random.

☐ a. True

☒ b. False ✗

### Explanation

Since your sample is random, and your interval is obtained by evaluating some function at your particular realization, the bounds are necessarily random.

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✗ Incorrect (0/1 point)

### Discussion

Topic: Module 7 / Confidence Intervals - Quiz

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