Quiz for Week 12

(!) This is a preview of the published version of the quiz

Started: 15 Nov at 15:30

Quiz instructions

Quiz time is from 17.15 to 18.00 of November 08, 2023.

Question 1	1 pts
In the construction of confidence interval for μ , if all other quantities are unchanged, an increase in the sample size will lead to a confidence interlength is	val whose
narrower	
○ wider	
○ remained the same	
ounable to tell	

Question 2 1 pts

Based on an observed random sample, a 95% confidence interval for the population mean μ is computed as (0.14,0.44). Which of the following statement is **CORRECT**?

- $\bigcirc P(0.14 < \mu < 0.44) = 0.95.$
- Since the confidence interval contains 0, with 95% probability ${m \mu}$ is equal to 0.
- $\bigcirc P(0.14 < \mu < 0.44) \ge 0.95.$
- None of the given options

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Question 3 1 pts

Let $\{x_1,x_2,\ldots,x_{10}\}$ be the observed values of a random sample from the normal population with unknown mean μ and unknown variance σ^2 . Which of the following formula should be used to constructed the 98% confidence interval for μ ?

- igcirc $ar{x} \pm z_{0.01} rac{\sigma}{\sqrt{10}}$
- \odot $ar{x}\pm t_{9,0.01}rac{s}{\sqrt{10}}$
- $\bigcirc \ ar{x} \pm z_{0.01} rac{s}{\sqrt{10}}$
- O None of the given options

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