Exercise for Week 12

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

Started: 4 Nov at 15:53

Quiz instructions

Quiz time is from 9:15am to 10:30am of November 01

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 interval whose length is	al
narrower	
○ wider	
○ remained the same	
○ unable to tell	

Question 2 1 pts

Let X_1, X_2, \ldots, X_n be a random sample. Based on their observed values, a 95% confidence interval for the population mean μ is computed as (-1.23, 2.11). Which of the following statement is **CORRECT**?

- $\bigcirc~P(-1.23 < \mu < 2.11) \geq 95\%$
- \bigcirc Since the confidence interval contains 0, with 95% probability $\pmb{\mu}$ is equal to 0.
- \bigcirc $P(-1.23 < \mu < 2.11) = 95\%$
- None of the given options

Question 3	1 pts
When performing a test regarding the population mean $oldsymbol{\mu}$, we decide not to	reject
H_0 when $\overline{X}>3$. It is known that $n=50$. If the true value for μ is $\;\mu=3$	} , what
is (approx) the probability of type II error?	
O 0.3	
0.5	
O 0.6	
not sufficient information to compute	

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