

Quiz 4 (Version A) Solutions

Version B is a permutation of Version A.

1. If one wants to develop a 90% confidence interval for the mean μ of a normal population, when the standard deviation σ is known, the confidence level is
 - A. .10
 - B. .45
 - C. .90
 - D. 1.645

ANSWER: C

2. A 99% confidence interval for the mean μ of a normal population when the standard deviation σ is known is found to be 98.6 to 118.4. If the confidence level is reduced to .95, the confidence interval for μ
 - A. becomes wider
 - B. becomes narrower
 - C. remains unchanged
 - D. None of the above answers are correct.

ANSWER: B

3. In developing a confidence interval for the population mean μ , a sample of 50 observations was used, and the confidence interval was 15.24 ± 1.20 . Had the sample size been 200 instead of 50, the confidence interval would have been
 - A. 7.62 ± 1.20
 - B. $15.24 \pm .30$
 - C. $15.24 \pm .60$
 - D. 3.81 ± 1.20
 - E. None of the above answers are correct.

ANSWER: C