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MATH 1342

Quiz 7.2

A statistics class with a large number of students has scores on an exam that are normally distributed. A sample of 40 of these students are chosen at random, and for the sample, the mean for the exam is 72.5 and the standard deviation is 9.6.

(1) Construct the 95% confidence interval for the mean of the entire statistics class.

(2) A second investigator constructs another confidence interval using the above sample. If the interval generated was (70, 75), then what was the confidence level?

(3) Construct the confidence interval for the mean of the entire statistics class with $\alpha = .15$. What is the confidence level?