Online Homework Package Created by : Elsit and Satya Mandal		
Course Id :Math 105	Topics in Mathematics	Semester : Summer2017
Instructor :Satya Mandal Line No : 84895		
Homework No: 21	Total Points :45	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1	A stock broker knows that the end-of-year balance X (percent of the January 1 balance) in the client's account has a distribution with mean μ percent and standard deviation σ = 10. The broker collected a sample of 49 clients and the sample mean $\underline{x}$ was found to be 100 percent. In this question and the next two, we compute a 99 percent confidence interval for the mean balance μ. Find the margin of error at a 99 percent confidence level.

Answer Question-1	This is a Numerical-Answer Type Question MOE =
Points	5.00

Question-2	Using the information from Question 1, find the left end point of the confidence interval of the mean balance μ.

Answer Question-2	This is a Numerical-Answer Type Question LEP =
Points	5.00

Question-3	Using the information from Question 1, find the right end point of the confidence interval of the mean balance μ.

Answer Question-3	This is a Numerical-Answer Type Question REP =
Points	5.00

Question-4	The length of a certain species of animal has a distribution with mean μ and standard deviation σ = 13.5. To estimate the mean μ of a herd, you have collected a sample of size 87 and the sample mean $\underline{x}$ was found to be 68 inches. In this question and the next two, we compute a 96 percent confidence interval for the mean length

	μ of the herd. Find the margin of error at a 96 percent confidence level.

Answer Question-4	This is a Numerical-Answer Type Question MOE =
Points	5.00

Question-5	Using the information from Question 4, find the left end point of the confidence interval of mean length μ of the herd.

Answer Question-5	This is a Numerical-Answer Type Question LEP =
Points	5.00

Question-6	Using the information from Question 4, find the right end point of the confidence level of mean length μ of the herd.

Answer Question-6	This is a Numerical-Answer Type Question REP =
Points	5.00

Question-7	The time X taken for a KU student to drive to the campus has distribution with mean μ minutes and and standard deviation σ = 7.5 minutes. To estimate the mean time μ, a sample of size 116 was collected and the sample mean $\underline{x}$ was found to be 22 minutes. In this question and the next two, we compute a 98 percent confidence interval for the mean time μ. Find the margin of error at a 98 percent level of confidence.

Answer Question-7	This is a Numerical-Answer Type Question MOE =
Points	5.00

Question-8	Using the information from Question 7, find the left end point of the confidence interval of the mean time μ.

Answer	This is a Numerical-Answer Type Question

Question-8	LEP =
Points	5.00

Question-9	Using the information from Question 7, find the right end point of the confidence level of the mean time μ.

Answer Question-9	This is a Numerical-Answer Type Question REP =
Points	5.00

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