<table>
<tr><td colspan="3" align="center">**Online Homework Package**
Created by : Elsit and Satya Mandal</td></tr>
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Course Id :Math 105	Topics in Mathematics	Semester : Summer2017
Instructor :Satya Mandal Line No : 84895		
Homework No: 23	Total Points :45	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1	The height X of adults has normal distribution with mean μ and standard deviation σ. To estimate the height of a group of people, a sample of n = 22 individuals was collected and the sample mean was found to be $\underline{x}$ = 155.1 and the sample standard deviation s = 14.9. We compute a 95 percent confidence interval for mean height μ. For this question, give the margin of error.

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

Question-2	Refer to Question 1. Find the left end point for the confidence interval of μ interval.

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

Question-3	Refer to Question 1. Find the right end point for the confidence interval of μ interval.

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

Question-4	The time X spent, per month, on a cell phone by an individual has normal distribution with mean μ. To estimate the mean time μ a sample of n = 250 people was collected. It was found that the sample mean $\underline{X}$ = 129.1 minutes and the sample standard deviation of s = 11.95 minutes. We will constuct a 99 percent confidence interval for mean time μ. For the this question find the margin of error.

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

Question-5	Refer to Question 4. Find the left end point for the confidence interval of μ interval.

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

Question-6	Refer to Question 4. Find the right end point for the confidence interval of μ interval.

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

Question-7	The temperature X of water in some kind of heating equipment has a normal distribution with mean μ. To estimate the mean temperature μ, a sample of 131 reading was collected. It was found that the sample mean $\underline{x}$ = 101.6 degrees and the standard deviation s = 11.1 degrees. We will compute a 96 percent confidence interval for mean temperature μ. For this question, compute the margin of error.

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

Question-8	Refer to Question 7. Find the left end point for the confidence interval of μ interval.

Answer Question-8	This is a Numerical-Answer Type Question
	LEP =
Points	5.00

Question-9	Refer to Question 7. Find the right end point for the confidence interval of μ interval.

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

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