

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: 22	Total Points :45	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1	<p>The time taken for an athlete to run an event has a distribution with mean μ seconds and known standard deviation $\sigma = 3.5$ seconds. To estimate the mean run time μ, the athlete runs the event 30 times and the sample mean run time \bar{x} was found to be 25 seconds.</p> <p>In this question and the next two, we will compute a 95 percent confidence interval for the mean time μ.</p> <p>Find the margin of error for the athlete at a confidence level of 95 percent.</p>
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Answer Question-1	This is a Numerical-Answer Type Question MOE = <input style="width: 80%;" type="text"/>
Points	5.00

Question-2	Refer to Question 1, find the left end point of the confidence interval.
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Answer Question-2	This is a Numerical-Answer Type Question LEP = <input style="width: 80%;" type="text"/>
Points	5.00

Question-3	Refer to Question 1, find the right end point of the confidence interval.
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Answer Question-3	This is a Numerical-Answer Type Question REP = <input style="width: 80%;" type="text"/>
Points	5.00

Question-4	<p>It is known that the tuition paid per semester by students in a university has a distribution with mean μ and known standard deviation $\sigma = \\$1278$. To estimate the mean μ a sample of 180 students were interviewed. The sample mean \bar{x} is found to be \$4200.</p> <p>In this question and the next two, we will compute a 92 percent confidence interval for the mean tuition μ.</p> <p>Find the margin of error for a 92 percent confidence interval.</p>
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Answer Question-4	This is a Numerical-Answer Type Question	
	MOE =	<input type="text"/>
Points	5.00	

Question-5 Refer to Question 4, find the left end point of the confidence interval.

Answer Question-5	This is a Numerical-Answer Type Question	
	LEP =	<input type="text"/>
Points	5.00	

Question-6 Refer to Question 4, find the right end point of the confidence interval.

Answer Question-6	This is a Numerical-Answer Type Question	
	REP =	<input type="text"/>
Points	5.00	

Question-7 The weight of salmon caught in a river has mean μ pounds. We know from previous experience that the standard deviation of the weight is $\sigma = 6$ pounds. Suppose you catch 56 fish and the mean weight of the fish is $\bar{x} = 21.1$ pounds.
In this question and the next two, we will compute a 90 percent confidence interval for the mean weight μ .
Find the margin of error in estimating μ at a 90 percent confidence interval.

Answer Question-7	This is a Numerical-Answer Type Question	
	MOE =	<input type="text"/>
Points	5.00	

Question-8 Refer to Question 7, find the left end point of the confidence interval.

Answer Question-8	This is a Numerical-Answer Type Question	
	LEP =	<input type="text"/>
Points	5.00	

Question-9	Refer to Question 7, find the right end point of the confidence interval.
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Answer Question-9	This is a Numerical-Answer Type Question
Points	5.00

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