

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

Question-1	<p>It is assumed that the lifetime (in hours) of light bulbs produced in a factory is normally distributed with mean μ and standard deviation σ. To estimate μ the following data was collected on the life time of bulbs:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>2530</td><td>7811</td><td>5140</td><td>4598</td><td>3099</td><td>8414</td><td>1541</td><td>4123</td><td>7892</td> </tr> <tr> <td>1783</td><td>3560</td><td>6544</td><td>2377</td><td>3214</td><td>2223</td><td>4548</td><td>1574</td><td>3641</td> </tr> </table> <p>Compute a 95 percent confidence interval for μ. For this question, find the margin of error.</p>	2530	7811	5140	4598	3099	8414	1541	4123	7892	1783	3560	6544	2377	3214	2223	4548	1574	3641
2530	7811	5140	4598	3099	8414	1541	4123	7892											
1783	3560	6544	2377	3214	2223	4548	1574	3641											

Answer Question-1	This is a Numerical-Answer Type Question MOE = <input style="width: 100%;" type="text"/>
Points	5.00

Question-2	Refer to Question 1. Find the left end point for the confidence interval of μ interval.
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Answer Question-2	This is a Numerical-Answer Type Question LEP = <input style="width: 100%;" type="text"/>
Points	5.00

Question-3	Refer to Question 1. Find the right end point for the confidence interval of μ interval.
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Answer Question-3	This is a Numerical-Answer Type Question Right End Point = r= <input style="width: 100%;" type="text"/>
Points	5.00

Question-4	<p>To estimate the mean time taken to complete a three mile-drive by a race car, the race car did several time trials, and the following sample of times taken to complete the laps was collected:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>50.1</td><td>48.7</td><td>49.7</td><td>46.5</td><td>54.4</td> </tr> </table>	50.1	48.7	49.7	46.5	54.4
50.1	48.7	49.7	46.5	54.4		

53.9	52.0	51.3	47.6	56.0
52.7	51.3	51.9	53.8	50.4
49.2	48.7	54.6	53.6	

Compute a 95 percent confidence interval for the mean μ . For this question, find the margin of error.

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 for the confidence interval of μ 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 for the confidence interval of μ interval.

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

Question-7 To estimate the mean height μ , in feet, of toddlers at age two, the following data was recorded:

1.55	1.50	1.15	1.30	1.45	1.60	1.70	1.65	1.20	1.65
1.35	1.60	1.75	1.60	1.25	1.20	1.25	1.60	1.55	

Compute a 99 percent confidence interval for the mean μ .

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 for the confidence interval of μ 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 for the confidence interval of μ interval.

Answer Question-9	This is a Numerical-Answer Type Question REP = <input type="text"/>
Points	5.00

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