

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: 25	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

Question-1	To estimate the proportion p of defective light bulbs produced in a factory, a sample of 180 bulbs were tested. In this sample 27 were defective. We will compute a 95 percent confidence interval for p . Compute the margin of error e in estimating p at 95 percent level of confidence.
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Answer Question-1	This is a Numerical-Answer Type Question MOE = $e =$ <input type="text"/>
Points	5.00

Question-2	Refer to Question 1. Compute the conservative margin of error E in estimating p at 95 percent level of confidence.
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Answer Question-2	This is a Numerical-Answer Type Question Cons. MOE = $E =$ <input type="text"/>
Points	5.00

Question-3	Compute the left end point l of a 95 percent confidence interval for p in Question 1.
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Answer Question-3	This is a Numerical-Answer Type Question LEP = <input type="text"/>
Points	5.00

Question-4	Refer to Question 1. Compute the right end point u of a 95 percent confidence interval for p .
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Answer Question-4	This is a Numerical-Answer Type Question REP = <input type="text"/>
Points	5.00

Question-5	In certain areas AIDS-HIV epidemic may a concern. A sample of 176 people were examined for AIDS-HIV and 44 were found to be infected by AIDS-HIV. We will compute a 99 percent confidence interval for the proportion p of people who were infected by AIDS-HIV. Compute the margin of error e in estimating p at 99 percent level of confidence.
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Answer Question-5	This is a Numerical-Answer Type Question
Points	5.00

Question-6	Refer to Question 5. Compute the conservative margin of error E in estimating p at 99 percent level of confidence.
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Answer Question-6	This is a Numerical-Answer Type Question
Points	5.00

Question-7	Refer to Question 5. Compute the left end point of a 99 percent confidence interval for p .
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Answer Question-7	This is a Numerical-Answer Type Question
Points	5.00

Question-8	Refer to Question 5. Compute the right end point of a 99 percent confidence interval for p .
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Answer Question-8	This is a Numerical-Answer Type Question
Points	5.00

Question-9	In a sample of 197 apples from a lot, 19 were found to be sour. In this question and the next two, we will set a 99 percent confidence interval for the proportion p of sour apples in the lot. For this question, give the left end point of the confidence interval.
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Answer	This is a Numerical-Answer Type Question
Question-9	LEP = <input type="text"/>
Points	5.00

Question-10 Refer to Qn. 9. Give the conservative MOE.

Answer	This is a Numerical-Answer Type Question
Question-10	Cons. MOE = <input type="text"/>
Points	5.00

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