

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

Question-1	<p>It is claimed that, in a border town, the immigrant population rose above 50 percent. In a sample of 211 individuals, 119 were immigrant. Perform a significant test. Here we test</p> $H_0 : p = .5$ $H_A : p > .5$ <p>What is the value of the test statistics?</p>
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Answer Question-1	<p style="text-align: center;">This is a Numerical-Answer Type Question</p> <p>Statistic Value = <input style="width: 100%;" type="text"/></p>
Points	5.00

Question-2	Decide if it is a Two Tail, Left Tail or Right Tail Test and compute the p-value of the collected data in Question 1.
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Answer Question-2	<p style="text-align: center;">This is a Numerical-Answer Type Question</p> <p>p- Value = <input style="width: 100%;" type="text"/></p>
Points	5.00

Question-3	Refer to Question 1. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the immigrant population rose above 50 percent?
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Answer Question-3	<p style="text-align: center;">This is a Numerical-Answer Type Question</p> <p>Lowest percent = <input style="width: 100%;" type="text"/></p>
Points	5.00

Question-4	In a certain region, it is beleived that the proportion of the population infected with AIDS-HIV has exceeded 20 percent. A sample of 276 people from were examined for AIDS-HIV and 64 were
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found to be infected by AIDS-HIV.
Perform a significant test. Here we test

$$H_0 : p = .2$$

$$H_A : p > .2$$

What is the value of the test statistics?

Answer Question-4	This is a Numerical-Answer Type Question
	Statistics Value = <input type="text"/>
Points	5.00

Question-5 Refer to Question 4. Decide if it is a Two Tail, Left Tail or Right Tail Test and compute the p-value of the collected data.

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

Question-6 Refer to Question 4. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the proportion of the population infected with AIDS-HIV has exceeded 20 percent?

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

Question-7 About 13 percent of items produced by an old machine are defective. You took a sample of 721 items produced by a new machine, and 76 were defective. Perform a significant test that the new machine is better. Here we test

$$H_0 : p = .13$$

$$H_A : p < .13$$

Compute the p-value of the collected data.

Answer Question-7	This is a Numerical-Answer Type Question
	p-Value = <input type="text"/>

Points	5.00
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Question-8	Refer to Question 7. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the proportion of the population infected with AIDS-HIV has exceeded 20 percent?
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Answer Question-8	This is a Numerical-Answer Type Question Lowest percent =
Points	5.00

Question-9	<p>It is believed that more than 60 percent of the people in the computer industry makes \$70 K or more annually. To test this belief you interview 711 in the computer industry and 445 of them are making \$70 K or more annually. Perform a significant test. Here we test</p> $H_0 : p = .6$ $H_A : p > .6$ <p>Compute the p-value of the collected data.</p>
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Answer Question-9	This is a Numerical-Answer Type Question p-value=
Points	5.00

Question-10	Refer to Question 9. What would be the lowest level of significance, percent among .1, .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 percent, at which you would accept that the proportion of the population infected with AIDS-HIV has exceeded 20 percent?
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Answer Question-10	This is a Numerical-Answer Type Question Lowest Percent =
Points	5.00

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