

<b>Online Homework Package</b> Created by : Elsit and Satya Mandal		
Course Id :Math 105	Topics in Math	Semester : Summer2017
Instructor :Satya Mandal Line No : 84895		
Homework No: 19	Total Points :50	Due Date:(YYYY-MM-DD) 2017-07-27

<b>Question-1</b>	The probability that a family (in a county) invests in the stock market is $p = 0.8$ . A statistician interviewed 800 families. What is the probability that at most 650 would have invested in the stock market (Use TI)?
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<b>Answer Question-1</b>	This is a Numerical-Answer Type Question
	$P(X \leq 650) =$
<b>Points</b>	5.00

<b>Question-2</b>	Refer to Question 1. Use normal approximation to binomial to find an approximate probability that at most 650 would have invested in the stock market.
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<b>Answer Question-2</b>	This is a Numerical-Answer Type Question
	$P(X < 650.5) =$
<b>Points</b>	5.00

<b>Question-3</b>	The probability that a person (in a county) favors medical use of marijuana is $p = 0.6$ . A statistician interviewed 700 individuals. What is the probability that at least 413 will be in favor (Use TI)?
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<b>Answer Question-3</b>	This is a Numerical-Answer Type Question
	$P(413 \leq X) =$
<b>Points</b>	5.00

<b>Question-4</b>	Refer to Question 3. Use normal approximation to binomial to find an approximate probability that at least 413 will be in favor.
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<b>Answer Question-4</b>	This is a Numerical-Answer Type Question
	Approximate $P(412.5 < X) =$

Points	5.00
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**Question-5** It is claimed that 55 percent of the population supports government action on poverty. A sample of 780 are interviewed. What is the probability that at most 450 would support the same (Use TI)?

<b>Answer Question-5</b>	This is a Numerical-Answer Type Question
	$P(X \leq 450) =$
Points	5.00

**Question-6** Refer to Question 5. Use normal approximation to binomial to find an approximate probability that at most 450 would support government action on poverty.

<b>Answer Question-6</b>	This is a Numerical-Answer Type Question
	Approximate $P(X < 450.5) =$
Points	5.00

**Question-7** A producer of a drug claims that only 22 percent of the patients may suffer some side effects. The drug was prescribed to 600 patients. What is the probability that more than 130 would suffer from some side effect (Use TI)?

<b>Answer Question-7</b>	This is a Numerical-Answer Type Question
	$P(130 < X) = P(131 \leq X) =$
Points	5.00

**Question-8** Refer to Question 7. Use normal approximation to binomial to find an approximate probability that more than 130 would suffer from some side effect.

<b>Answer Question-8</b>	This is a Numerical-Answer Type Question
	Approximate $P(130.5 < X) =$
Points	5.00

**Question-9** It is speculated that the proportion  $p$  of students who paid more than \$5000 tuition this year is  $p = .58$ . A sample of 680 students was collected. Assuming that this speculation is correct, what is the probability that more than 400 would have paid more than \$5000 in tuition (Use TI).

<b>Answer Question-9</b>	<b>This is a Numerical-Answer Type Question</b> $P(400 < X) = P(401 \leq X) =$
Points	5.00

<b>Question-10</b>	Refer to Question 9. Use normal approximation to binomial to find an approximate probability that more than 400 would have paid more than \$5000 in tuition
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<b>Answer Question-10</b>	<b>This is a Numerical-Answer Type Question</b> Approximate $P(400.5 < X) =$
Points	5.00

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