M9X & M9Y - Advanced Placement Statistics
Chapter 9 - Confidence Interval for a Population Proportion

April 10, 2017

Dear Students,

Please study very carefully all of Chapter 9 of your textbook on how to construct $z-$ or $t-$ *confidence intervals* (C.I.) *for a population proportion* or for a *population mean* and also how to calculate the *minimum sample size* to guarantee an estimate within a specific bound on error.

Please remember that independent if you are aiming to produce a $z-$confidence interval for p, or a $z-$confidence interval for μ, or a $t-$confidence interval for μ, the process is very algorithmic and can be described in the following four steps:

1. checking that all required conditions are met,
2. presenting the correct formula for the C.I.
3. substitute the correct values for all variables and use your calculator to compute the C.I., and
4. interpret the C.I. in context

Once you finish studying, proceed by answering problems: 9.44, 9.48, 9.64, and 9.70

Please remember that **we will have a cumulative exam on chapters 1 through 9, with emphasis on chapters 8 & 9 this Wednesday, April 12th**. As always your work should be uploaded electronically and not turned in by email or on paper.

Mr. Demopoulos