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Minitab #4   Due: Thursday Dec. 3
                                                          Late Assignments lose 5 pts/day
Submit your completed assignment in D2L Assessment => Assignments.

#1. Use Minitab to construct the CI for #124 on page 342 of your textbook.
     a. Interpret the CI.
     b. Use Minitab to run an A-D Test of Normality (Report p value and conclusion).

#2. Use Minitab to construct the confidence interval for #135 part c, on page 344.
     Interpret the CI.

#3. Use Minitab to do problem #161 part a (Test the buyers "doubts") on page 405.
     a. State the null and alternative hypotheses asked for in the textbook.
         Report the test statistic, the degrees of freedom and the p value.

     b. State your conclusion.

     c. Use Minitab to run an A-D Test of Normality (Report p value and conclusion).

#4. Use Minitab to do problem #156 on page 404.
     a. State the null and alternative hypotheses.
         Report the test statistic and the p value.

     b. State your conclusion.

Minitab Commands

#1 C.I. on μ if σ is unknown

   For #1, you need to enter the n data values into a column (C1)

   Click on STAT $\Rightarrow$ Basic Statistics $\Rightarrow$ 1 sample T
     Samples in column <u>C1</u>

    | Options | Use this button if you want to change $(1-\alpha)$

#2 C. I. on proportions
   Click on STAT $\Rightarrow$ Basic Statistics $\Rightarrow$ 1 Proportion
     $\otimes$ Summarized Data
      number of events <u>x</u>
      number of trials <u>n</u>

   | Options | Use this button if you want to change $(1-\alpha)$

    $\rightarrow$ | X | Method Normal Approximation

#3 You need to enter the data values into a column (say C1)
    for the T test click on STAT $\Rightarrow$ Basic Statistics $\Rightarrow$ 1 Sample T
      Samples in columns <u>C1</u>
      x Perform hypothesis test
       Hypothesized mean μ_0

      Choose H_a
   | Options |

#4 Test on proportions
   Click on STAT $\Rightarrow$ Basic Statistics $\Rightarrow$ 1 proportion
       $\otimes$ Summarized data
       number of events <u>x</u>
       number of trials <u>n</u>

     x Perform hypothesis test
     Hypothesized proportion P_0

   | Options | Use the options button to choose the alternative hypothesis.

    | X | Method Normal Approximation

Test for Normality   Stat $\Rightarrow$ Basic Statistics $\Rightarrow$ Normality test
          <u>C1</u>

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