



CHAPTER

6

Sampling Distributions and Confidence Intervals



calculator keys

Confidence Interval Estimate for the Mean When σ Is Unknown

Press [STAT][\blacktriangleleft] to display the Tests menu and select 8:TInterval and press [Enter] to display the TInterval screen. In this screen, select Stats as the Inpt type and press [ENTER].

Enter values for the sample mean \bar{X} , the sample standard deviation S_x , and the sample size, n . Then enter the confidence level (C-Level) as the decimal fraction equivalent to a percentage. (Enter .95 for 95% confidence.) Select Calculate and press [ENTER] to display the results screen. In this screen, the lower and upper limits of confidence interval estimate appear as a pair of values enclosed in parentheses (46.06, 53.54).



calculator keys

Confidence Interval Estimate for the Proportion

Press [STAT][\blacktriangleleft] to display the Tests menu and select A:1-PropZInt to display the 1-PropZInt screen. In this screen, enter values for the number of successes x , the sample size n , and the confidence level (C-Level) as the decimal fraction equivalent to a percentage (.95 for 95%). Select Calculate and press [ENTER] to display the results screen. The lower and upper limits of the confidence interval estimate will appear as a pair of values enclosed in parentheses.