

17. TECHNOLOGY CORNER

ONE-SAMPLE t INTERVALS FOR μ ON THE CALCULATOR

TI-Nspire instructions in Appendix B; HP Prime instructions on the book's Web site.

Confidence intervals for a population mean using t distributions can be constructed on the TI-89, thus avoiding the use of Table B. Here is a brief summary of the techniques when you have the actual data values and when you have only numerical summaries.

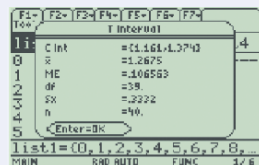
TI-89

- Using summary statistics (see auto pollution example, page 519)

From inside the Statistics/List Editor,

- Press **2nd** **F2** (**[F7]**) to go into the intervals (Ints) menu, then choose TInterval
- Choose "Stats" as the Data Input Method.
- On the TInterval screen, adjust your settings as shown and press **ENTER**.





2. Using raw data (see video screen tension example, page 520)

Enter the 20 video screen tension readings data in L1/list1. Proceed to the TInterval screen as in Step 1, but choose Data as the input method. Then adjust your settings as shown and calculate the interval.

