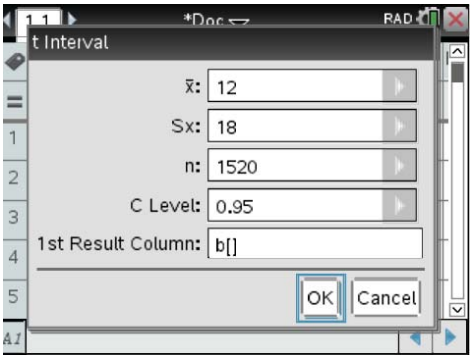
19. One-sample *t* intervals for μ on the calculator

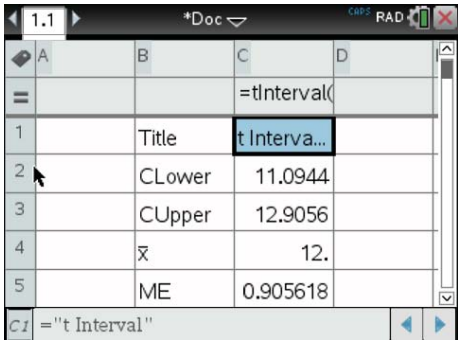
Confidence intervals for a population mean using *t* procedures can be constructed on the TI-Nspire, thus avoiding the use of Table B. Here is a brief summary of the techniques when you only have numerical summaries and when you have the actual data values.

1. Using summary statistics: More books example, page 535

   - Insert a *Lists & Spreadsheet* page: Press (ctrl) [I] and select *Add Lists & Spreadsheet*.
   - Press (menu) → *Statistics* → *Confidence Intervals* → *t interval*.
   - The first dialogue box that appears asks for *Data* or *Stats* in the drop-down box. Select *Stats*, (tab) to [OK], and press (enter).
   - In the next dialogue box, enter the values shown.



   - (tab) to [OK] and press (enter).
   - The results should now appear in the spreadsheet.

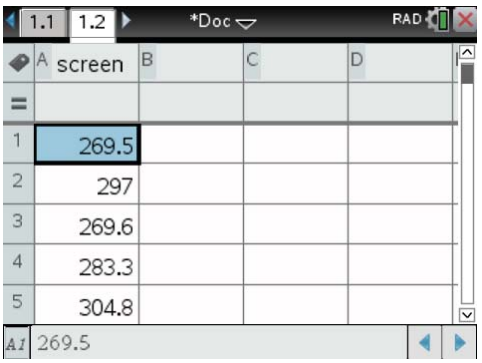


2. Using raw data: Video screen tension example, page 536

Enter the 20 video screen tension readings data using the procedure below.

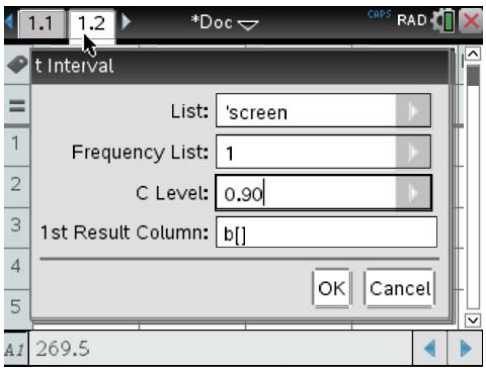
   - Insert a *Lists & Spreadsheet* page: Press (ctrl) [I] and select *Add Lists & Spreadsheet*.

Name the first column **screen**.
Arrow down to the first cell and enter the 20 values.



To construct the *t* interval:

Press (menu) → *Statistics* → *Confidence Intervals* → *t interval*.
The first dialogue box that appears asks for *Data* or *Stats* in the drop-down box.
Select *Data*, (tab) to [OK], and press (enter).
In the next dialogue box, select the data list, **screen**, (tab) to [OK], and press (enter).



The results should now appear in the spreadsheet. (You may have to scroll up to see them.)