All modern TI graphing calculators (that I know about) allow you to calculate various types of statistics. The TI-84 Plus, in particular, has a powerful suite of <u>statistics</u> tools.

Demonstration problem: <u>Calculate the standard deviation</u> of the following set of data { 50, 20, 33, 40, 55 }

Part I enter the data into List<sub>1</sub> Step 1) Press "Stat"

**Step 2)** Hit "enter" button and you should see the three lists on the right. In the next step we will enter all of the scores into L1

Step 4) Press "50" then "enter"

Step 5) Enter the rest of the data into the calculator by pressing each of the numbers then 'enter' :20, 33, 40, 55

**Step 6)** Return to the main calculator screen by pressing "2nd" then "quit"

Step 7) Press "Stat"



**IDA** CALC TESTS

dit… ortÄ(

3:SortD(



**IDI** CALC TESTS IEEdit… 2:SortA( 3:SortD( 4:ClrList 5:SetUpEditor

Part I enter the data into List <sub>1</sub> <b>Step 1)</b> Press "Stat"	CALC TESTS HEdit… 2:SortA( 3:SortD( 4:ClrList 5:SetUPEditor
Step 8) Scroll right to highlight "Calc"	EDIT <b>Delle</b> TESTS 181-Var Stats 2:2-Var Stats 3:Med-Med 4:LinRe9(ax+b) 5:QuadRe9 6:CubicRe9 74QuartRe9
Step 9) Hit "enter"	1-Var Stats ∎
Step 10) hit "2nd" then "L1"	1-Var Stats L1∎
Step 11) Press "enter	1-Var Stats X=39.6 Σx=198 Σx²=8614 Sx=13.90323703 σx=12.43543325 ↓n=5

Your good old <u>TI Graphing Calculator</u> came to the rescue. All of the information that you see in the picture above is quite useful

**X** represents the arithmetic mean

**represents the** <u>standard deviation</u>

Therefore, this set of data has a mean of 39.6 and a standard deviation of 12.4