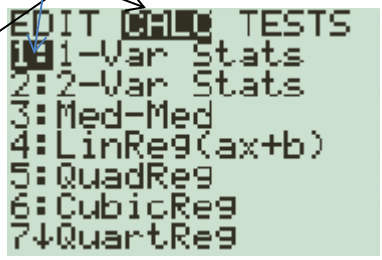
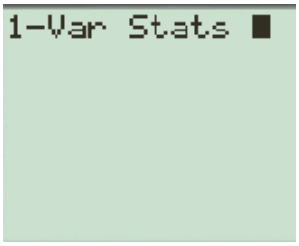
Computing Statistics with a Graphing Calculator

1) To invoke computation menu touch, [STAT]
→CALC, item 1, 1-Var Stats



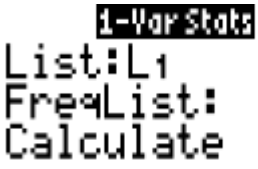
1-Var Stats Computes a series of values for a data array contained in L_1, the default list. You can specify an alternate list or lists by naming it before hitting ENTER, example, 1-Var Stats L_2



Once 1-Var Stats is selected, it appears in the calculator window. If L_1 is what you want , select the [ENTER] key.

Over to see statistics calculation result.

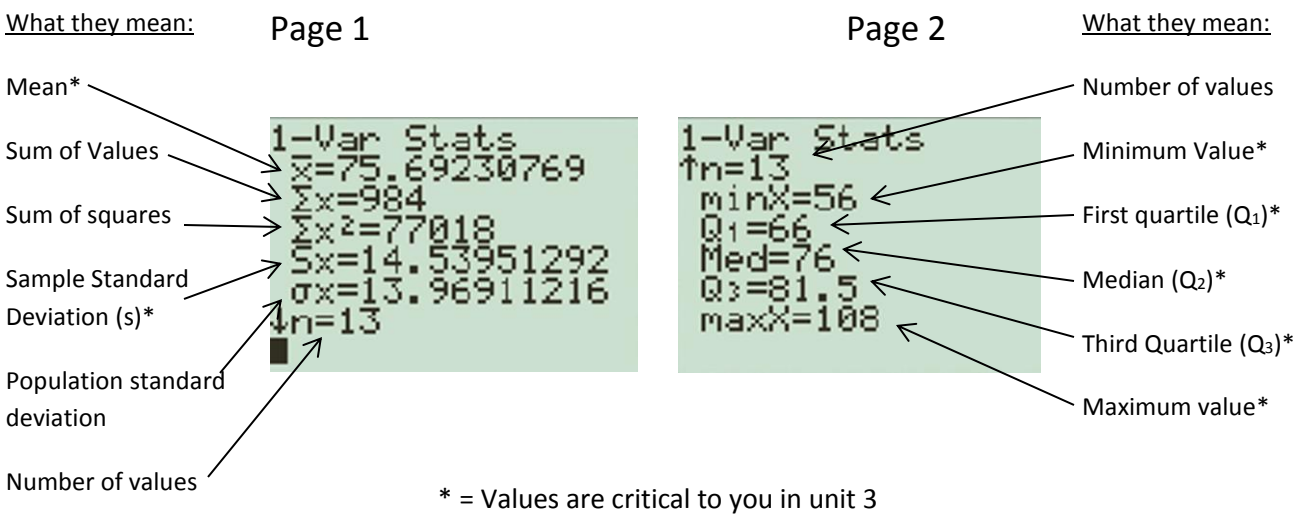
Prompting Calculators (Newer TI-84+ s)
Newer calculators will prompt you for lists when you invoke 1-Var Stats. It looks like:



List: L1

FreqList: leave blank (for now)

1-Var Stats gives you a list of 11 computations on two pages. To access information on page 2, touch the down arrow until you see it all. This goes item-by-item.



* = Values are critical to you in unit 3

Statistic	**Aliases**	**Symbol**	**Calculator Symbol**
Mean	Average	$\bar{x}$	$\bar{x}$
Median	Q2	Med, Q2	Med
Mode			
Standard deviation		s	sx
Variance		s^2	
1st quartile	Lower quartile, Q1	Q1	Q1
3rd quartile	Upper quartile, Q3	Q3	Q3

Additional Info: Formulas you might need:

Range = $Hi_{value} - Lo_{value}$

IQR = Q3 – Q1

Outliers are beyond (Q1 – 1.5 · IQR, Q3 + 1.5 · IQR)

$$MidRange = \frac{(Hi_{value} + Lo_{Value})}{2}$$