Use CASIO FX-280 to Find Sample Mean $\bar{X}$ & Sample S.D. S

To Compute $\bar{X}$ and S for data: $12, 15, 4$

- Press **MODE**
- Press **·** (You should see **SD** at the top right corner of the window)
- Type **12** into the window, then press **M+**
- Type **15** into the window, then press **M+**
- Type **4** into the window, then press **M+**
- Press **SHIFT**, then press n (You should see 3, which is the total # of obs. you entered)
- Press **SHIFT**, then press $\bar{X}$ (You should see 10.33333333, which is the sample mean)
- Press **SHIFT**, then press σ_{n-1} (You should see 5.686240703, which is the sample s.d.)
- Press **SHIFT**, then press **AC** (to clear all data entered)
- Press **MODE**, then press **0** (to return to usual mode, and sign **SD** disappears in window)

Use TI-30XIIS to Find Sample Mean $\bar{X}$ & Sample S.D. S

To Compute $\bar{X}$ and S for data: $12, 15, 4$

- Press **2nd Data** (to get into Stat Mode)
- Press **Enter** to select 1-var mode
- Press Data
- Type **12** after $X_1 =$
- Press $\bigtriangledown$, then type **1** after FRQ $=$
- Press $\bigtriangledown$, then type **15** after $X_2 =$
- Press $\bigtriangledown$, then type **1** after FRQ $=$
- Press $\bigtriangledown$, then type **4** after $X_3 =$
- Press $\bigtriangledown$, then type **1** after FRQ $=$
- Press **STATVAR**, then move key $\triangleright$ to see $n = 3, \bar{X} = 10.3333333, S_x = 5.686240703,$ etc.. where S_x is the sample s.d. S
- Press **2nd STATVAR** (to quit)

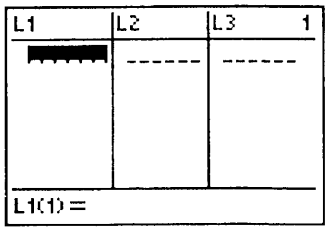
YouTube Link: http://www.youtube.com/watch?v=NVqJPh3LFUY

Using the TI-82 to Find the Sample Mean and Sample Standard Deviation

Suppose that you want to find the mean and the standard deviation of the data set given below using the TI-82 graphing calculator.

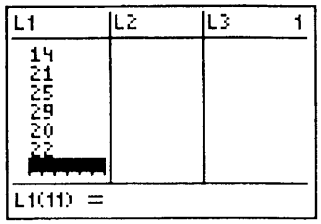
17 15 23 19 14 21 25 29 20 22

First, you will need to enter the data from the Edit sub-menu. Press the STAT key and press ENTER to select the 1: (Edit...) option. You may see the following screen:

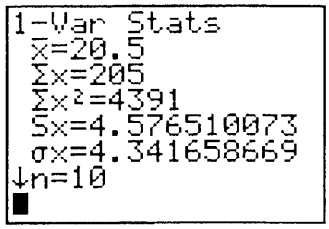


The TI-82 will store up to six lists of data. If you wish to clear any particular list, arrow up to the list name, press CLEAR and then press ENTER.

Enter your data values, pressing ENTER after each entry. You should see the following screen after entering the data above:



To calculate the descriptive summary measures, press STAT, right arrow to CALC, and press ENTER to select the 1: 1-Var Stats option. You must now indicate the name of the data list that you want to analyze. In this case, you wish to use list #1 (L1) in the analysis. Press 2^{nd} 1 (L1) to select the first list. Then press ENTER. You should see the following screen:



This screen indicates that the sample mean is $\bar{x} = 20.5$ and the sample standard deviation is $s \approx 4.5765$.