How To: Find the Mean and Standard Deviation for a Discrete Random Variable Using the TI-84

- 1. Turn on the calculator by pressing the **ON** button (lowest left hand button).
- 2. Enter your data values into L1 (see How To: Create a Data Set (List)).
- 3. Enter the probabilities for each data value into L2.
- 4. Press STAT.
- 5. Then select CALC from the top menu on your screen by using the arrows to move the cursor over.
- 6. Select 1-Var Stats from the list by highlighting it and then press ENTER.
- 7. You will see "1-Var Stats" on your home screen, press 2^{nd} , then 1, this will select L1.
- 8. Then press "," and press 2^{nd} , then 2, this will select L2.
- 9. Press ENTER.
- 10. You will have the mean and standard deviation for your distribution on your screen.

Example to follow on next page \rightarrow

Example:

Use the following data for this example:

Repair Calls	Probability
0	0.1
1	0.3
2	0.4
3	0.2

2. Enter your data values into L1.

L1	L2	L3 1
011/1/0		
L1(5)=		

3. Enter the probabilities for each data value into L2.

L1	L2	L3 2	
0123	ಗಣ್ರಸ್ಕಾಗ		
L2(5) =			

4. Press STAT.



5. Then select CALC from the top menu on your screen by using the arrows to move the cursor over.



6. Select 1-Var Stats from the list by highlighting it and then press ENTER.



7. You will see "1-Var Stats" on your home screen, press 2nd, then 1, this will select L1.



8. Then press "," and press 2^{nd} , then 2, this will select L2.



9. Press ENTER.

10. You will have the mean which for this example is 1.7 and standard deviation which for this example is 0.9 for your distribution on your screen.