Mean and Standard Deviation of a Probability Distribution on the TI-83/84 Calculators

1) Assign your x values to List 1 in your calculator, and your P(x) values to List 2 in your calculator.
   These can be found under [STAT] → Edit
2) Go to the title of List 3, and type: L1 * L2
3) Press [STAT] → Calc → 1:1-VAR STATS
4) Enter that you want the 1-VAR STATS for L3
5) The line Σx is your μ; write it down:

   $\mu =$ _____

6) Go back to [STAT] → Edit
7) In the title of List 4, enter the following: [(L1-μ)²*L2] where μ is what you wrote down earlier.
8) Once again, press [STAT] → Calc → 1:1-VAR STATS
9) Enter that you want the 1-VAR STATS for L4
10) Write down the line Σx once more, and then take the square root of it.
11) This is your standard deviation:

    $\sigma =$ _____