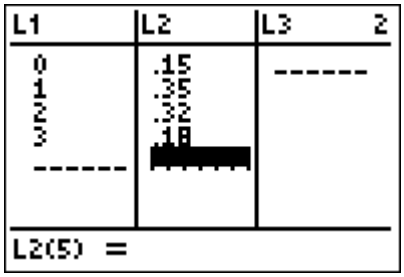
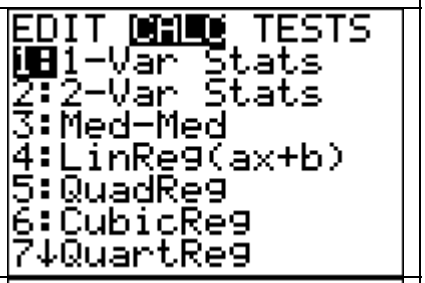
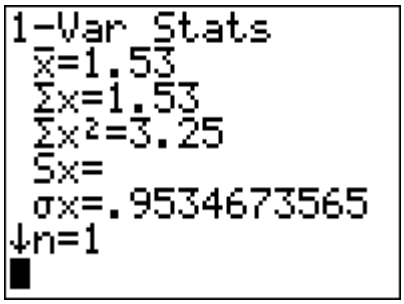
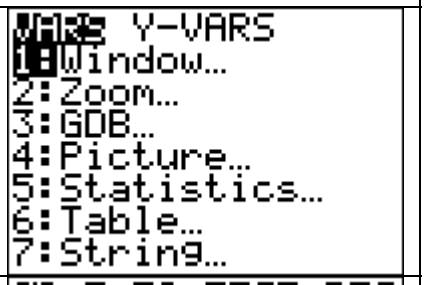
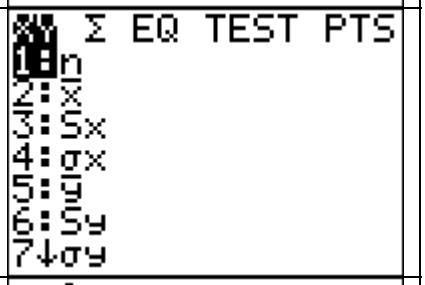
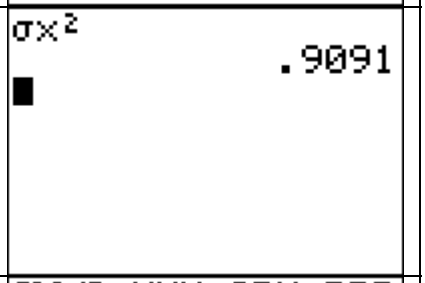
TI Instructions

How to find μ, σ, and σ^2 of a Probability Distribution Table:

Steps	Instructions	Screen Shots
1	**To find μ, σ, and σ^2 of a Probability Distribution table such as such as** x | 0 | 1 | 2 | 3 $P(x)$ | .15 | .35 | .32 | .18 **Enter x and corresponding $p(x)$ values into L1 and L2.**	
2	**Now press STAT followed by CALC**	
3	**Press 1 for 1: 1-Var Stats, followed by L1 , L2**	

4	**Now press ENTER to perform the calculation.** **Sx must be blank and n must be equal to 1.** $\mu = \overline{X}$ **and** $\sigma = \sigma_X$	
5	**To find** σ^2**, press VARS**	
6	**Press 5 for 5:Statistics**	
7	**Press 4 for 4:σx followed by X²**	
13	**Press ENTER**	
14	**To get this result in fraction form** **Press MATH followed** **by 1 for 1:▶ Frac** **Press ENTER twice to complete the task; it is possible that it cannot be written in a fraction form.**