## Expected Values (Means) and SDs of Random Variables

You can easily calculate means (expected values) and standard deviations for a random variable.


Let's use the "No Ones, Twos, or Threes" example.
Enter the values of the variable in $\mathbf{L} 1$.


Enter the probability model (the probabilities) in L2. To get exact values, enter them as fractions - the calculator will convert them into decimals for you!


Under the STAT CALC menu, select option 1:1-Var Stats.

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## Calculate 1-Var Stats L1,L2.

You'll see the mean (expected value) and standard deviation...along with some other values.

BEWARE: The calculator calls the standard deviation $\sigma$ (which is good!), but it calls the mean $\overline{\mathrm{X}}$, when it should call it $\mu$. Don't make the same mistake!

