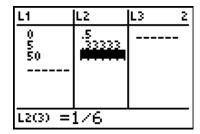
Expected Values (Means) and SDs of Random Variables

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

L1	L2	L3 '	1
2			_
0 5 50			
			_
L1(4)=			

Let's use the "No Ones, Twos, or Threes" example.

Enter the values of the variable in L1.



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!

```
1-Var Stats L1,L
```

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

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 σ (which is good!), but it calls the mean \overline{x} , when it *should* call it μ . **Don't make the same mistake!**