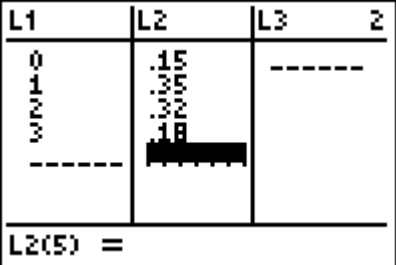
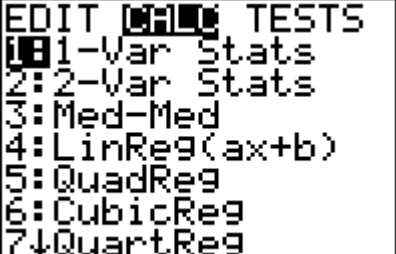



TI Instructions

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

Distribution Table:

Step s	Instructions	Screen Shots										
1	<p>To find μ, σ, and σ^2 of a Probability Distribution table such as such as</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>x</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>$P(x)$</td> <td>.15</td> <td>.35</td> <td>.32</td> <td>.18</td> </tr> </table> <p>Enter x and corresponding $p(x)$ values into L1 and L2.</p>	x	0	1	2	3	$P(x)$.15	.35	.32	.18	
x	0	1	2	3								
$P(x)$.15	.35	.32	.18								
2	Now press STAT followed by CALC											
3	Press 1 for 1: 1-Var Stats , followed by L1 , L2											

4	<p>Now press ENTER to perform the calculation.</p> <p>SX must be blank and n must be equal to 1.</p> $\mu = \bar{x} \text{ and } \sigma = \sigma_x$	<pre> 1-Var Stats x=1.53 Σx=1.53 Σx²=3.25 Sx= σx=.9534673565 ↓n=1 </pre>
5	To find σ^2 , press VAR S	<pre> VAR: Y-VARS 1: Window... 2: Zoom... 3: GDB... 4: Picture... 5: Statistics... 6: Table... 7: String... </pre>
6	Press 5 for 5:Statistics	<pre> Σ EQ TEST PTS 1: n 2: x̄ 3: Sx 4: σx 5: σx² 6: Sx² 7: ↓σx² </pre>
7	Press 4 for 4:σX followed by X^2	<pre> σx² </pre>
13	Press ENTER	<pre> σx² .9091 </pre>
14	<p>To get this result in fraction form</p> <p>Press MATH followed by 1 for 1:►Frac</p> <p>Press ENTER twice to complete the task; it is possible that it cannot be written in a fraction form.</p>	<pre> NUM: NUM CPX PRB 1: ►Frac 2: ►Dec 3: 3 4: 3√(5: *√ 6: fMin(7: ↓fMax(</pre>

