

## Simple Statistics II

<p>The data: Identical to last sheet – but this time it has been counted and placed in a frequency table.</p>	<table border="1"> <thead> <tr><th>x</th><th>f</th></tr> </thead> <tbody> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>4</td></tr> <tr><td>6</td><td>8</td></tr> <tr><td>7</td><td>4</td></tr> </tbody> </table>	x	f	0	2	1	2	2	4	3	4	4	4	5	4	6	8	7	4	<table border="1"> <thead> <tr><th>x</th><th>f</th></tr> </thead> <tbody> <tr><td>8</td><td>5</td></tr> <tr><td>9</td><td>4</td></tr> <tr><td>10</td><td>3</td></tr> <tr><td>11</td><td>2</td></tr> <tr><td>12</td><td>2</td></tr> <tr><td>13, 14, 15</td><td>0</td></tr> <tr><td>16</td><td>1</td></tr> <tr><td>17</td><td>1</td></tr> </tbody> </table>	x	f	8	5	9	4	10	3	11	2	12	2	13, 14, 15	0	16	1	17	1	
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<p>Preparing the calculator by clearing all lists:</p>	<p><code>2nd</code> <code>MEM</code> <code>4</code> <code>ENTER</code></p>	<pre> 1:00000 2:About 3:Mem Mgmt/Del... 4:Clear Entries 5:ClrAllLists 6:Archive 7:UnArchive 8:Reset...         </pre>																																					
<p>Enter the data: x values into list L<sub>1</sub> frequencies into list L<sub>2</sub></p>	<p><code>STAT</code> <code>1</code> <code>2</code> <code>▼</code> <code>4</code> <code>▼</code> <code>5</code> <code>▼</code> <code>6</code> <code>▼</code> etc....</p>	<table border="1"> <thead> <tr><th>L1</th><th>L2</th><th>L3</th><th>Z</th></tr> </thead> <tbody> <tr><td>0</td><td>2</td><td></td><td></td></tr> <tr><td>1</td><td>2</td><td></td><td></td></tr> <tr><td>2</td><td>4</td><td></td><td></td></tr> <tr><td>3</td><td>4</td><td></td><td></td></tr> <tr><td>4</td><td>4</td><td></td><td></td></tr> <tr><td>5</td><td>4</td><td></td><td></td></tr> <tr><td>6</td><td>8</td><td></td><td></td></tr> <tr><td>7</td><td>4</td><td></td><td></td></tr> </tbody> </table> <p>L2(6) = 4</p>	L1	L2	L3	Z	0	2			1	2			2	4			3	4			4	4			5	4			6	8			7	4			
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<p>Perform the calculation: (1-Var Stats L<sub>1</sub>, L<sub>2</sub>)</p>	<p><code>STAT</code> <code>▶</code> <code>1</code> <code>[L1]</code> <code>,</code> <code>[L2]</code> <code>ENTER</code></p>	<pre> EDIT 0000 TESTS 1:1-Var Stats 2:2-Var Stats 3:Med-Med 4:LinReg(ax+b) 5:QuadReg 6:CubicReg 7:QuartReg         </pre>																																					
<p>Interpret the results:</p> <p>(Be careful: of the two figures for standard deviation it is always the SMALLER value you want.)</p>	<p>lower quartile -</p> <p>upper quartile -</p>	<pre> 1-Var Stats X=6.38 ----- mean Σx=319 Σx²=2721 Sx=3.741057364 σx=3.703457844 ----- standard deviation ↓n=50 minX=0 Q1=4 ----- lower quartile Med=6 ----- median Q3=9 ----- upper quartile maxX=17         </pre>																																					