

## How to Calculate a Partial Sum on a TI-83+

Press <b>2ND STAT</b> to get the <b>LIST</b> menu	<pre>NAMES OPS MATH 1: L1 2: L2 3: L3 4: L4 5: L5 6: L6</pre>
Arrow over to the <b>MATH</b> menu and select <b>5: sum(</b>	<pre>NAMES OPS MATH 1: min( 2: max( 3: mean( 4: median( 5: sum( 6: prod( 7: stdDev(</pre>
You should get this screen...	<pre>sum(</pre>
Press <b>2ND STAT</b> to get the <b>LIST</b> menu again Arrow over to the <b>OPS</b> menu and select <b>5: seq(</b>  You should get this screen...	<pre>500 Expr: Variable: start: end: step: Paste</pre>
Enter the argument, the index, the limits of summation (start & end), and 1 for the step. The example shown is $\sum_{n=1}^{50} 3n$ . Arrow down to Paste and press ENTER.	<pre>500 Expr: 3n Variable: n start: 1 end: 50 step: 1</pre>
You should get this screen...	<pre>49(3n, n, 1, 50, 1)</pre>
Press <b>ENTER</b> to get the sum.	<pre>sum(seq(3n, n, 1, 50, 1)) 3825</pre>