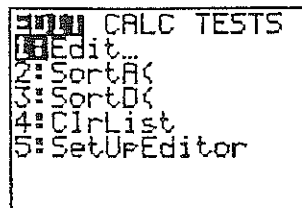
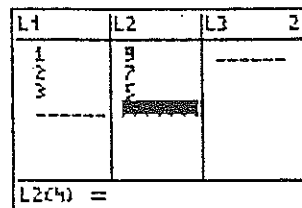


Technology Tip: Linear Regression

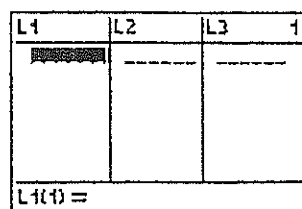
1. Bring up the Statistics Menu by pressing the STAT button.



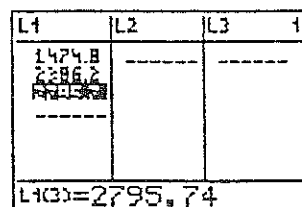
2. Bring up the List Editor by selecting Edit and pressing ENTER.



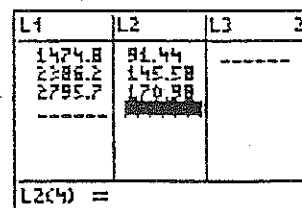
3. Clear the lists. If there is existing data in the list, use the arrows to move the cursor to the list heading, L₁. Press the CLEAR button and press ENTER. This clears all of the data in the list. Repeat for each list containing data.



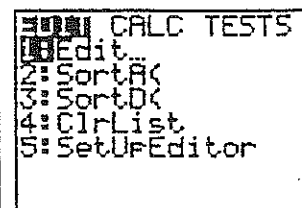
4. Enter the numeric values of the *inputs* in list L₁ pressing ENTER after each entry.



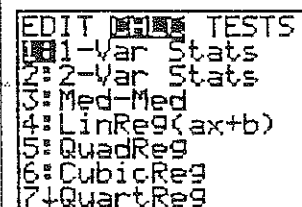
5. Enter the numeric values of the *outputs* in list L₂ pressing ENTER after each entry.



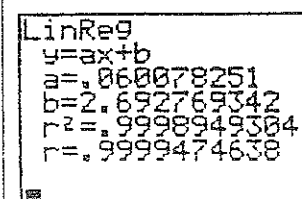
6. Return to the Statistics Menu by pressing the STAT button.

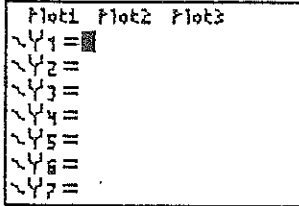
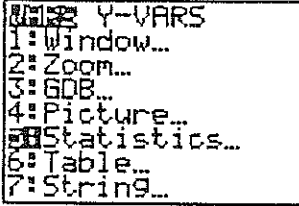
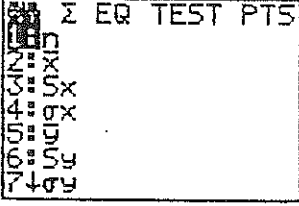
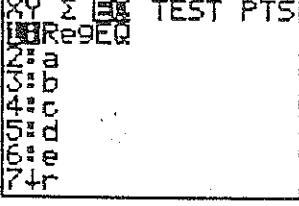
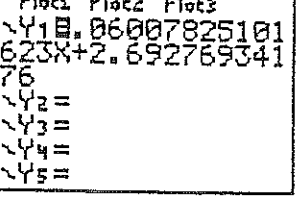
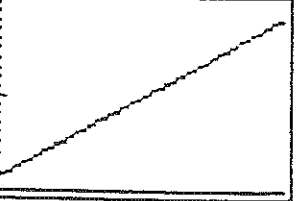


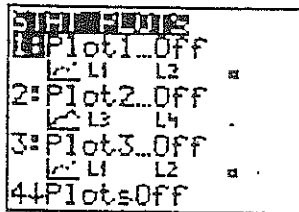
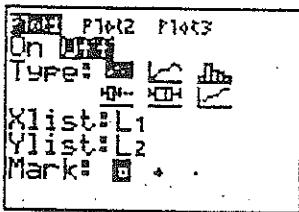
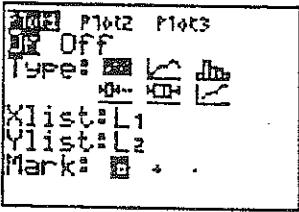
7. Bring up the Calculate Menu by using the arrows to select CALC.



8. Calculate the linear equation of the model by selecting LinReg(ax+b) and pressing ENTER twice.



Technology Tip: Graphing a Regression Equation	
<p>1. Press the Y= button to bring up the Graphing List, immediately after calculating the regression equation.</p>	
<p>2. Bring up the Variables menu by pressing the VARS key.</p>	
<p>3. Bring up the Variables: Statistics menu by selecting Statistics . . . and pressing ENTER.</p>	
<p>4. Bring up the Equation menu by moving the cursor to EQ.</p>	
<p>5. Select the regression equation by choosing RegEQ and pressing ENTER. This pastes the regression equation into the Graphing List.</p>	
<p>6. Graph the function by pressing the GRAPH button. You may need to adjust the viewing window to see the graph.</p>	

Technology Tip: Drawing a Scatter Plot	
<p>1. Bring up the Statistics Plot menu by pressing the 2nd button then the Y= button.</p>	
<p>2. Open Plot1 by pressing ENTER.</p>	
<p>3. Turn on Plot1 by moving the cursor to On and pressing ENTER. Confirm that other menu entries are as shown.</p>	
<p>4. Graph the scatter plot by pressing GRAPH. This will graph the data set along with any functions in the Graphing List. <u>You may need to adjust the viewing window to see the scatter plot.</u></p>	