

## USING THE STATISTICAL FEATURES OF THE TI-82, TI-83 AND TI-83+

### A. ENTERING DATA

1. Press the STAT menu key.
2. Choose the Edit...option.
3. Your calculator has six lists for data storage. Arrow left or right to enter your data in List 1 (L1) or in L2, L3, L4, L5 or L6.
4. If there is already data in the list you want to use, choose another list or clear the list. To clear the list, press STAT, choose ClrList followed by the lists you want to clear, separated by commas.  
E.g. To clear List 1 and List 2, you would have ClrList L1, L2 and press ENTER.
5. Once your list is clear, go back to STAT, Edit and enter your data from the first column into one list. Simply type in the number and press ENTER. The cursor will automatically drop to the next line. When you have completed entering the data in the first list, use the arrow key to begin entering the data in the second list. ***Both lists must be of the same length.***

### B. GRAPHING THE SCATTER PLOT

1. Press 2<sup>nd</sup> Y= to access the STAT PLOT menu.
2. You can store up to three plots at a time. Choose Plot 1, Plot 2 or Plot 3, and press ENTER.
3. Highlight On.
4. Highlight the first type plot shown, press ENTER.
5. For the XList, choose whichever list you used to store your first set of data (usually, this is L1), press ENTER.
6. For the YList, choose whichever list you used to store your second set of data (usually, this is L2), press ENTER.
7. Choose your mark, press ENTER. The first mark is the easiest to see.
8. Set the window automatically to see all of your data points by pressing ZOOM and then ZoomStat (#9). Alternatively, you can go to WINDOW and adjust the window settings yourself.

### C. FINDING and GRAPHING A REGRESSION EQUATION

1. Press STAT and select the CALC menu.
2. Choose the type of regression equation that is appropriate for your data. For example, if the data appeared to be linear, choose LinReg(ax+b).
3. If you have data stored in L1 and L2 and no other data is stored, press ENTER to obtain the regression equation. If you have data in more than two lists, enter in parentheses the lists that you want the calculator to use. For example, if your data is in L3 and L4, you would need to have LinReg(ax+b)(L3,L4).
4. On the Y= menu, clear or inactivate existing functions. With the cursor on a clear line, select VARS, Statistics (#5), move the cursor to the right to select EQ, select RegEq, press ENTER, and then press GRAPH.