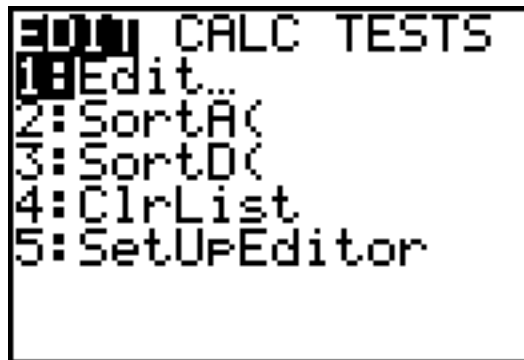


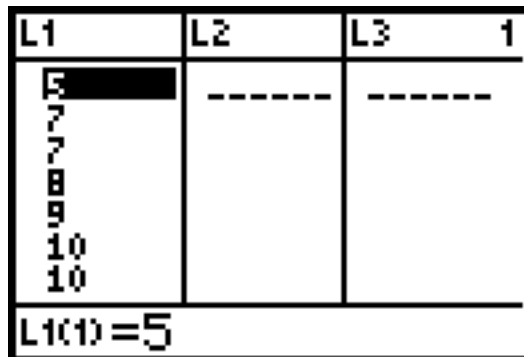
HOW TO DRAW A BOX PLOT ON A GRAPHING CALCULATOR

Once you have stored data in a list, you can use your calculator to draw a box plot (also called a box-and-whisker plot) that will help you visualize the data. The directions below are for the TI-83 and TI-83+, but can easily be adapted to other models.

The first step is to enter your data into a “list.” Press the **[STAT]** key to bring up the following screen:



Since the **EDIT** menu is already selected, as is **1:Edit** on that menu, simply press **[ENTER]** to go the following screen:



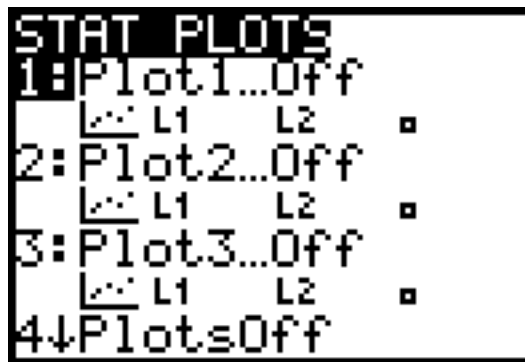
A screenshot of the TI-83/83+ calculator's list editor screen. The screen displays the following data:

L1	L2	L3	1
5	-----	-----	
7			
8			
9			
10			
10			

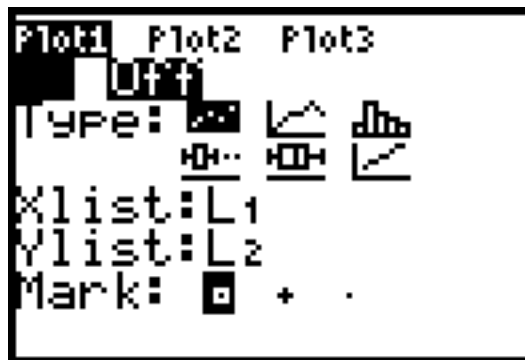
L1(1)=5

Enter your data, one by one, by using the number keys on your calculator, pressing the **[ENTER]** key after each piece of data.

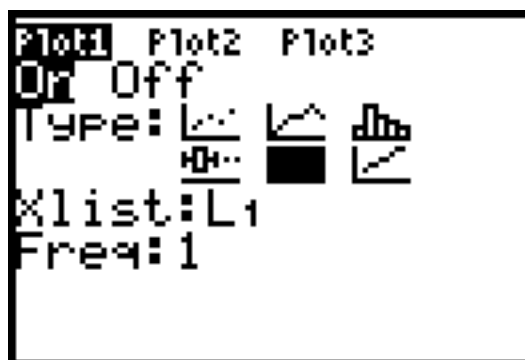
Once the data have been entered, you are ready to draw the box plot. The first step is to “turn on” statistical graphing. Press **[2nd]** **[STAT PLOT]** (the second function on the **[Y=]** key). This should bring up the following screen:



If **1:Plot 1** is in the **Off** mode (as it is in the picture above), press the **ENTER** key to bring up the following screen:



With the cursor flashing over the word **On**, press the **ENTER** key to turn on **Plot1**. Next use the down arrow **▼** to move to the type of plot you want, in this case the middle one on the second row. To get to that one, use the right arrow key **▶** to wrap around to the second line of types. When the flashing cursor is over the middle one in the second row, press the **ENTER** key.



To see the box plot, we need to tell the calculator that we are doing statistical graphing, rather than the more traditional xy-coordinate plane graphing. To do this, press the **ZOOM** key, and then press the down arrow **▼** to move the cursor over **ZoomStat** (#9):

```
ZOOM MEMORY
3↑Zoom Out
4:ZDecimal
5:ZSquare
6:ZStandard
7:ZTri9
8:ZInteger
9!!ZoomStat
```

Press the **ENTER** key, and you should get the box plot you wanted:

