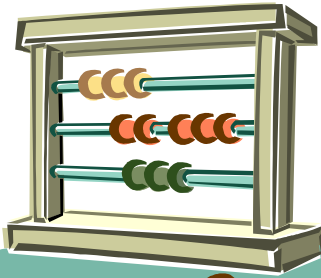


Name: _____

Creating Box & Whisker Plots on the TI-84



Step 1: Complete the U.S. State Worksheet recording how many states you have spent the night in. Please keep in mind that it does not count when you FLY OVER a state or spend a couple of hours in a car while driving through. If you are not sure whether or not it should count, simply raise your hand.

Step 2: Record numbers of all students (how many states they have slept in) from your class in the table to the right. Be as accurate as possible to ensure a correct graph when we are finished.

Step 3: Find the Statistical Data by graphing on the TI-84:

1. Enter your Data into a List (STAT, EDIT, L1).
2. Press STAT PLOT.
3. Be sure all plots are OFF, except for #1.
4. Set up Plot #1:
 - a. Turn ON
 - b. Choose Box & Whisker Graph (4th choice)
 - c. Choose your Mark
5. Graph your data by pressing ZOOM STAT (#9 under Zoom).
6. Press TRACE to see all data and fill in the table below. You will need to calculate both the range and the Inter-quartile range by finding the difference between the two:

Stats	Number of Students
Min x	
Max x	
Range	
First Quartile	
Third Quartile	
Inter-quartile Range	
Median	

Step 4: Compare your work to a partner, since you used the same class data, you should have very similar answers! Once you are finished, draw your Box & Whisker Plot in the space below and record all information EXACTLY as it looks on the TI-84!