TI-84 One-Way ANOVA Tests

The TI-84 can calculate one-way ANOVA.

Begin by entering the data in the Lists in the calculator. You will find these by pressing **STAT** and then selecting Edit…   Then enter the data into the list. Use one list for each type of treatment.   The data we're testing in the example has 4 treatments, with uneven numbers of data for each treatment.
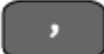
When the data is entered into the calculator, EXIT and then select **STAT** and TESTS. **ANOVA(** is #H on this list. Scroll up to get to the bottom of the list. The syntax for the **ANOVA** function is to enter the lists, separated by commas, where the data for the test can be found.

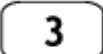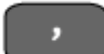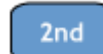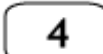Since we have 4 treatments, we need to list all 4 lists. After selecting **ANOVA(** from the Tests list,

2nd **1** to get L₁, comma **,** , **2nd** **2** for L₂, comma **,** , **2nd**

3 for L₃, comma **,** , **2nd** **4** for L₄, then close the parentheses. The syntax is shown in the screen capture.

When you hit **ENTER** at this point, the results of the test come up.

The test results run onto a second screen, so you will need to scroll to see the full results.

The ANOVA uses the F test statistic, but it provides the P-value for you in the test results. Compare this information to α to determine whether to accept or reject the null hypothesis H_0.

The TI-84 cannot do Two-Way ANOVA, though you might be able to find programs to can download from TI that can perform the test.

ANOVA(lists)