Entering Data in Lists

The TI-83/84 calculators allow you to enter data in six pre-defined lists, designated L1 - L6. In addition, the calculator allows you to store data in named lists. We will only use the six pre-defined lists. Additional information, including how to use named lists, can be found in your calculator Guidebook.

You enter data and perform statistics on lists from the Stat functions. Press the [STAT] key to access the Stat functions.

If you ever find that you do not see lists L1 - L6, press [STAT] to access the Stat functions. Press 5 or highlight the SetUpEditor function and press [ENTER] to get the function on the home screen, then press [ENTER] again to execute the function and set the editor for the default lists.

Use the first option on the EDIT menu (Edit...) to enter or edit data in a list. Press 1 or highlight the Edit... function and press [ENTER] to access the list editing screen.

The current lists are displayed with the cursor in the first entry in the list that was last edited. To clear a list, press the left or right arrows until you are in the list you wish to clear, then press the up arrow until the cursor is in the list heading area and the list name is highlighted. Press [CLEAR] and then [ENTER].
The cursor moves to the first entry in the list and you are ready to start entering the data. For example, enter the numbers 1-20 in a list.

First, clear a list so you are ready to enter the data. Then, enter the numbers and press [ENTER] for each entry in the list. The cursor automatically moves to the next entry in the list. Shown below are the screens after the first 5 entries and after all 20 values have been entered.

You can use the `seq` function alone or in combination with other functions, such as the `rand` function, to generate lists. The `seq` function can be found on the LIST OPS menu. The LIST menus can be accessed with the 2nd [STAT] key sequence. The `rand` function is found on the MATH PRB menu. Press the [MATH] key to access the MATH menus.

The syntax for the sequence function is `seq(expression, variable, begin, end, increment)`. The `expression` is the formula using the `variable` as it ranges from `begin` to `end` with an optional `increment`. To store the results in a list, use the `STO` key after the sequence expression, followed by a list. The following will store 100 random numbers between 0 and 10 in list 3.

```
seq(10*rand,X,1,100,1)→L3
{3.642547224 6....
```