

Linear Regression on the TI 83/84

First, open the List editor.

- 1. Press [STAT]-->[EDIT]
- 2. Enter data into the Lists. Press enter after each entry.

L1	L2	L3	3
2	25		
4	45		
6	60		

L3(1)=			

To clear a previous list, move the cursor up to the top and press [CLEAR],[ENTER]

Use **L1** for first column, and **L2** for the second column, L3 for the third, etc.

- 3. Press [STAT]. Choose [CALC]
- 4. Scroll down to choose the regression type that is appropriate to the problem.

```

EDIT [CALC] TESTS
1:1-Var Stats
2:2-Var Stats
3:Med-Med
4:LinReg(ax+b)
5:QuadReg
6:CubicReg
7↓QuartReg
    
```

- 5. Press [ENTER]. This will paste that command onto the home screen
- 6. Type in **L1, L2, Y1** (or whichever two lists are being used)
- 7. Press [ENTER].

The screens will look similar to these:

```

LinReg(ax+b) L1,
L2, Y1
    
```

```

LinReg
y=ax+b
a=6.973684211
b=10.78947368
r²=.9989331437
r=.9994664295
    
```

Note: By typing in the Y_1 after $L1, L2$, the calculator also sends the regression equation to Y_1 , the equation editor, so that it can be graphed. Y_1 is in the [VARS] menu. Press [VARS] ,Y-VARS,1,1

Press [GRAPH] and reset the WINDOW as needed.

