REGRESSION

On the 83 and 84:

To graph the scatter plot…
STAT   Edit   <enter data>   STATPLOT   PLOT1   ON   ENTER   Zoom   9:ZoomStat

To compute the regression coefficients…
STAT   CALC   <select regression type>   ENTER

Your home screen should now say LinReg (or whatever regression type you chose). You need to make it say LinReg L1,L2,Y1 before you hit ENTER again.

To get L1, press 2nd 1. The comma is above the 7 key. To get L2, press 2nd 2. To get Y1, press VARS, Y-VARS, 1:Function, 1:Y1.

To use the regression for prediction, the equation is in Y=

COMMOM PROBLEMS and how to fix them:

If you are missing a list, such as L1 or L2, go to STAT, EDIT, 5:SetUpEditor.

If you would like to see the correlation coefficient (R value) for a regression, go to your catalog (2nd 0) and scroll down until you see DiagnosticsOn. Select it, then push Enter.

On the 82 and as an alternative method for the 83 and 84:

To graph the scatter plot…
STAT   Edit   <enter data>   STATPLOT   PLOT1   ON   ENTER   Zoom   9:ZoomStat

To compute the regression coefficients…   STAT   CALC   <select regression type>   ENTER

To graph the regression equation…   Y=   VARS   Statistics   EQ   RegEQ   GRAPH

On the 85:

To graph the scatter plot:
STAT   EDIT   <two down arrows then enter data> CLRxy
set your window to an appropriate size STAT DRAW   SCAT

To compute the regression coefficients:
STAT   CALC   <two down arrows>
<select regression type>

To graph the regression equation:
GRAPH y(x)= STAT VARS RegEq

To use the regression for prediction:
STAT   FCST or use the equation in y=

On the 86:

To graph the scatter plot:
STAT   EDIT   <enter data including 1s in fStat>   EXIT   STAT   PLOT   PLOT1 <choose type and mark> GRAPH ZOOM ZDATA

To compute the regression coefficients:
STAT   CALC   <select regression type>

To graph the regression equation:
GRAPH y(x)= STAT   VARS   RegEQ

To use the regression for prediction:
STAT   FCST or use the equation in y=