This activity assumes that you already know the steps to calculate a regression line as explained in video 411 and uses the same data set.

Enter the data into lists 1 and 2, and check that StatGraph1 is set to produce a scatter plot.

Tap **Calc**, **Regression**, **Linear Reg**.

Check the settings are as shown, including Copy Residual is set to list3, which will automatically calculate the residuals ($y - \hat{y}$) for each data point and place them in list3.

Tap **OK** to confirm Set Calculation settings.

The linear regression coefficients are displayed.

Tap **OK** to close the Stat Calculation window.

The regression line is drawn through the scatter plot.

In the upper window the residuals can be seen in list3.

Tap ☒ in the top right hand corner of the screen to close the graph window.

To create a residual plot:

Tap **SetGraph.**

Deselect Previous Reg.

Tap 📊.

Change the settings for StatGraph1 by selecting list1 and list3 as shown.

Tap 📊.

The residual plot is drawn in the bottom window.