
TI-83/84

If you have never computed the correlation for a set of data points using your TI-83/84, then you will need to do the following in order to ensure that the correlation r will be displayed by your calculator. This only needs to be done once!

Press: $\boxed{2\text{nd}} \boxed{\text{CATALOG}}$ and scroll down until **DiagnosticOn** is highlighted. Press $\boxed{\text{Enter}} \boxed{\text{Enter}}$.

■ 1. Data IN - Enter data values into your calculator

Points used for this example: (10, 15), (12, 20), (15, 35)

Press: $\boxed{\text{STAT}}$ and with 1: Edit highlighted press $\boxed{\text{Enter}}$.

Enter the three x -values into the first column L_1 and the three y -values into the second column L_2 .

■ 2. Calculate

Press: $\boxed{\text{STAT}}$ and use \downarrow to highlight CALC in the top line. With 4: LinReg(ax+b) highlighted press $\boxed{\text{Enter}} \boxed{\text{Enter}}$. The variable a is the **slope** of the least-squares regression line, b is the **y-intercept** of the least-squares regression line, r^2 is the **coefficient of determination**, and r is the **correlation**. If your calculator does not show r^2 and r you need to return to the beginning and follow the directions for evaluating **DiagnosticOn**.

■ 3. Data OUT - Clear data values from your calculator

Press: $\boxed{\text{STAT}}$ and then with 1: Edit highlighted press $\boxed{\text{Enter}}$. Previously entered data values are visible in the first column under the L_1 and L_2 labels. To remove the data values from the first column, move the cursor up so that L_1 is highlighted, press $\boxed{\text{CLEAR}}$ and then $\boxed{\text{ENTER}}$. To remove the data values from the second column, move the cursor up so that L_2 is highlighted, press $\boxed{\text{CLEAR}}$ and then $\boxed{\text{ENTER}}$.