1-5 Scatter Plots Calculator Instructions

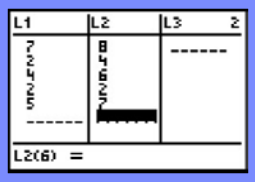
Created by:

Susan Blakely
EPISD
Coronado High School

1-5 Scatter Plots Calculator Instructions

Step 1: Enter Data Into Lists

Data for this example:
L1: {7,2,4,2,5}
L2: {8,4,6,2,7}



To input data into the STAT list editor:

- Enter STAT edit mode by pressing [STAT] [1].
- Enter the data in the L1 and L2 lists, pressing [ENTER] after each entry.
- Press [2nd] [MODE] to QUIT and return to the home screen.

1-5 Scatter Plots Calculator Instructions

Step 2: Graph the Scatter Plot

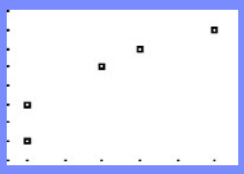
- Press [2nd] [Y=] to access the STAT PLOT editor.
- Press [ENTER] to edit Plot1.
- Press [ENTER] to turn ON Plot1.
- Scroll down and highlight the scatter plot graph type (first option in the first row).

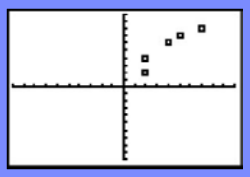
- Press [ENTER] to select the scatter plot graph type.
- Scroll down and make sure Xlist: is set to L1 and Ylist: is set to L2. To input L1, press [2nd] [1]. To input L2, press [2nd] [2].

1-5 Scatter Plots Calculator Instructions

Step 3: View the Scatter Plot

- Press [GRAPH] to display the scatter plot.





- To get a better view of the graph, press [ZOOM] [9] to perform a ZoomStat.

1-5 Scatter Plots Calculator Instructions

Correlation Coefficient - Relationship Between X & Y

"r" Value Interpretation

r = + 1.0	Strong - Positive	As X goes up, Y always also goes up
r = + 0.5	Weak - Positive	As X goes up, Y tends to usually also go up
r = 0	- No Correlation -	X and Y are not correlated
r = - 0.5	Weak - Negative	As X goes up, Y tends to usually go down
r = - 1.0	Strong - Negative	As X goes up, Y always goes down

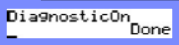
1-5 Scatter Plots Calculator Instructions

Finding the Correlation Coefficient

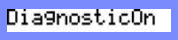
Step 1) In order for the graphing calculator to be able to calculate the correlation coefficient. You must change a setting in the calculator. Press "2nd" then "CATALOG" (above the zero button)

Step 2) Scroll down to the "D" area (or select the "D" key) and stop when you are at "DiaGnosticOn".Press "Enter"

Step 3) You should see "DiaGnosticOn" displayed on the main calculator screen



Step 4) Press "enter"

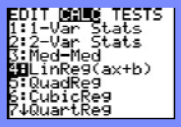


1-5 Scatter Plots Calculator Instructions

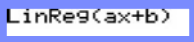
Finding the Correlation Coefficient

Step 5) Scroll Right to "Calc"

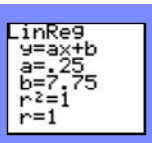
Step 6) Scroll down to "LinReg" or select the "4" key



Step 7) Press "enter". Your calculator screen should look like this screen shot



Step 8) Hit "enter" and the last item, 'r' represents the correlation coefficient.



- r is the correlation coefficient
- r^2 is the coefficient of determination