

Statistical graphs –Bivariate Part 1

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Select STAT mode from the main menu by using the arrow keys to highlight the STAT icon or pressing 2.



Example:

Enter the following 2 variable statistics and graph a linear regression model of the data.

Student	Mathematics	English
	x	y
a	2	2
b	3	3
c	4	3
d	5	5
e	6	6
f	7	7
g	8	6



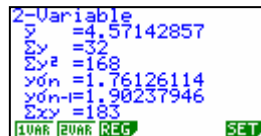
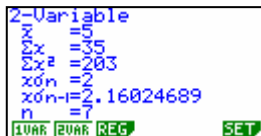
Set up the lists so the List 1 is the Mathematics (x values), List 2 is the English (y values).

Setting up for the data to be calculated in regression format (this calculator model performs a *Least Squares regression* model, is done by pressing **F2** for **Calc** then **F6** for **SET**



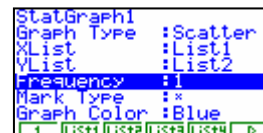
Press the appropriate **F** keys to alter the **2Var XList** , **2Var YList** and **2Var Freq**.

Then press **EXIT** and **F2** for the summary statistics as shown below.



Setting up for the data to graph in regression format. This is done by pressing **F1** for **GRPH**, then **F6** for **SET**

Press the appropriate **F** keys to alter the settings for a Scattergraph.

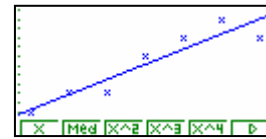
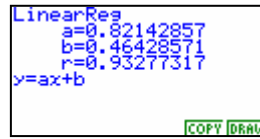


Then press **EXIT** and **F1** for **GPH1**(statistical graph #1) for the statistical graph – a scattergraph.

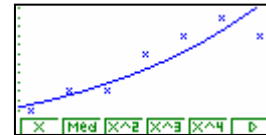
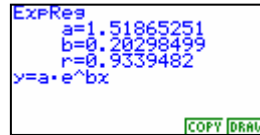


Press the appropriate **F** keys to 'fit' the data with a mathematical model.

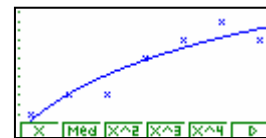
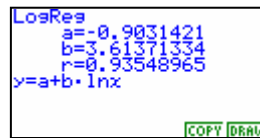
linear
model



exponential
model



logarithmic
model



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