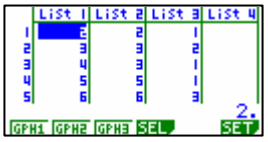
Statistical graphs –Bivariate Part 2

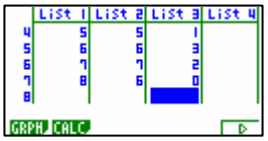
Select STAT mode from the main menu by using the arrow keys to highlight the STAT icon or pressing 2.

Example:

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

Student	Mathematics	English	Frequency
	x	y	f
a	2	2	1
b&c	3	3	2
d	4	3	1
e	5	5	1
f, g &h	6	6	3
i & j	7	7	2
k	8	6	1



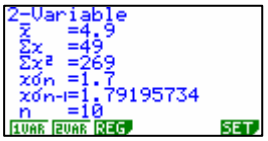


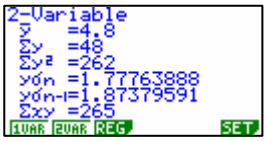
Set up the lists so the List 1 is the Mathematics (x values), List 2 is the English (y values) and List 3 is the frequency values.

Setting up for the data to calculated in regression format (this calculator model performs a ***Least Squares regression*** model. This 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.





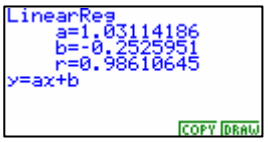
Setting up for the data to graph in regression format. This is done by pressing F1, then F6 for SET

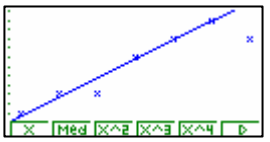
Press the appropriate **F** keys to alter the settings for a Scattergraph.

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

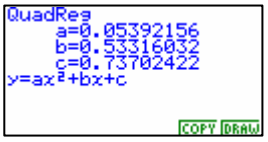
Press the appropriate **F** keys to 'fit' the data with a mathematical model.

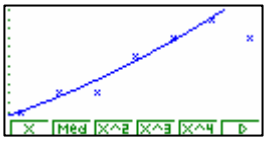
linear model



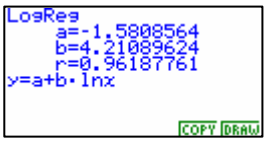


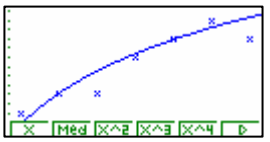
quadratic model





logarithmic model





For further tips, more helpful information and software support visit our website
www.monacocorp.co.nz/casio