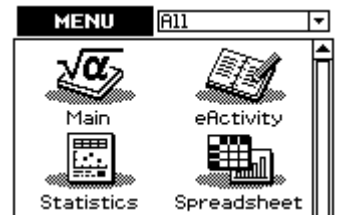


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411	Create a scatterplot with regression line	Author	Charlie Watson
		Date	25 September 2008
		CPM OS	03.03.3000

Open the Statistics application.

Tap Edit, Clear All.

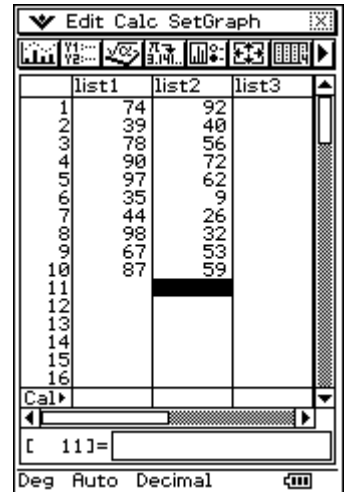


The data below shows the number of births and deaths for ten similar sized suburbs in a city during a one year period.

74	39	78	90	97	35	44	98	67	87
92	40	56	72	62	9	26	32	53	59

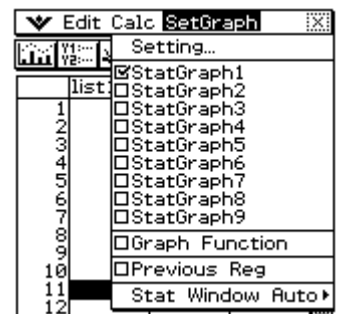
Enter the number of births into **list1** by typing each number and tapping EXE.

Enter the number of deaths into **list2**.



Tap **SetGraph**.

Ensure that just StatGraph1 has a tick in its box.



Tap **Setting...** to open the Set StatGraphs window.

The radio button opposite Draw should be On.

Use the drop down menus to set

Type: Scatter

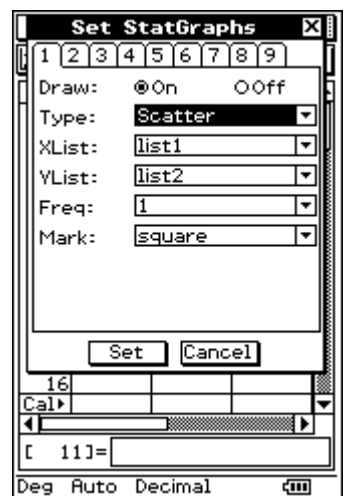
XList: list1

YList: list2

Freq: 1


Mark: square

Tap **Set** to confirm your settings.

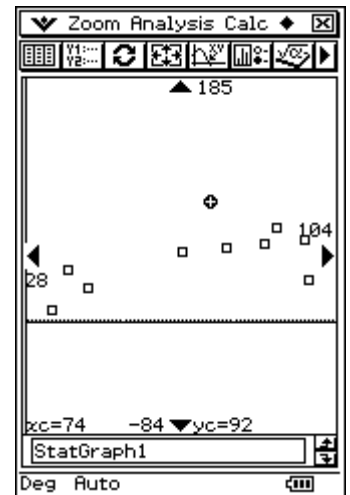


Tap the DrawGraph icon .

Tap Resize .

Tap  and observe that the x and y-coordinates of the first data point are displayed at the bottom of the screen ($x_c = 74$, $y_c = 92$).

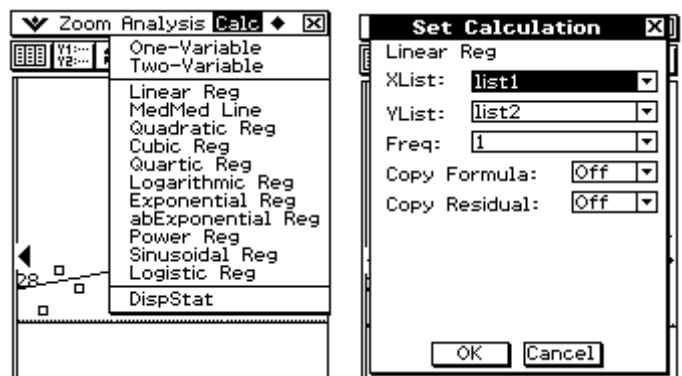
Tap the cursor key to move left and right through the other points.



Tap **Calc**.

Tap **Linear Reg**.

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

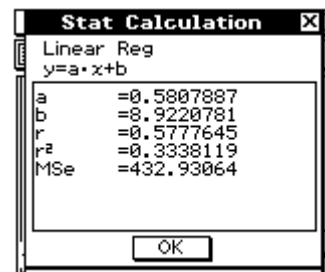


The Linear Regression coefficients are displayed.


The line has a gradient of 0.581

The correlation coefficient is 0.578

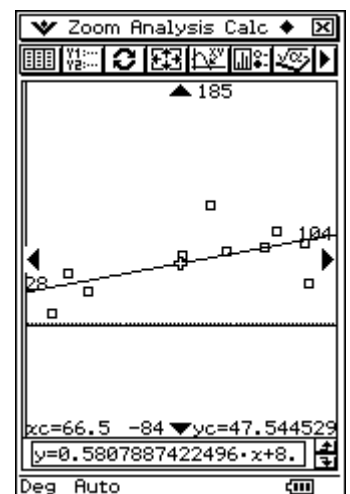
Tap **OK**.



The regression line is drawn through the data points.

Tap  and observe that the x and y-coordinates of a point on the regression line are displayed at the bottom of the screen together with equation of the line of regression.

Tap the cursor key to move left and right along the line or up and then left and right to jump through the data points.



Tap close  in the top right hand corner of the screen.