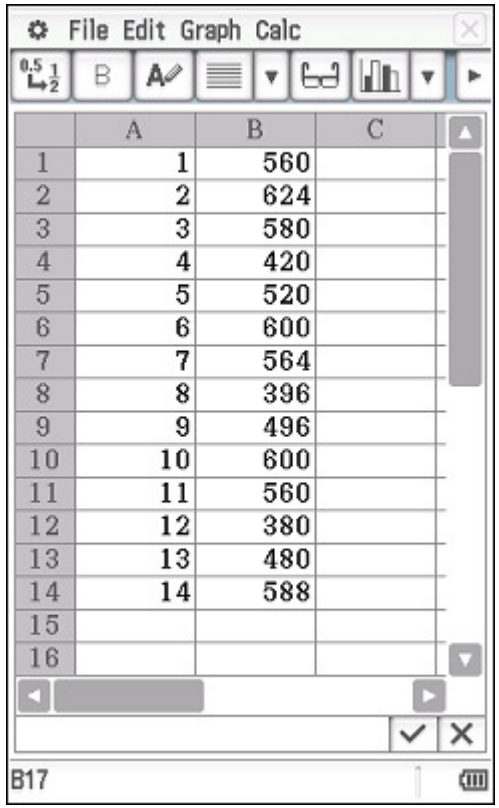
ClassPad II Help Series	Casio Education Australia - supporting Australian teachers	www.casio.edu.shriro.com.au	Author	Charlie Watson
CP545	Smoothing Time Series		Date	April 2015
			CPII OS	02.00.2000.0000

Start a new spreadsheet and enter the time series data shown.

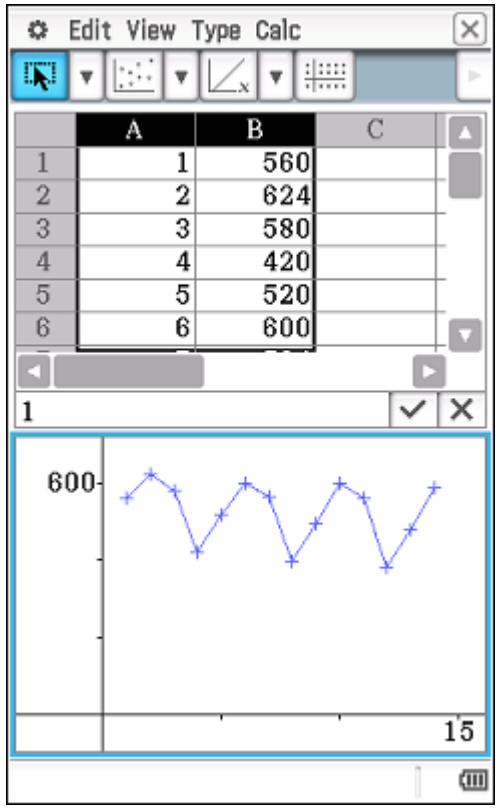


Graph the data to determine a suitable moving average.

Select columns A and B, tap **Graph, Scatter**. Tap **View, Lines**.

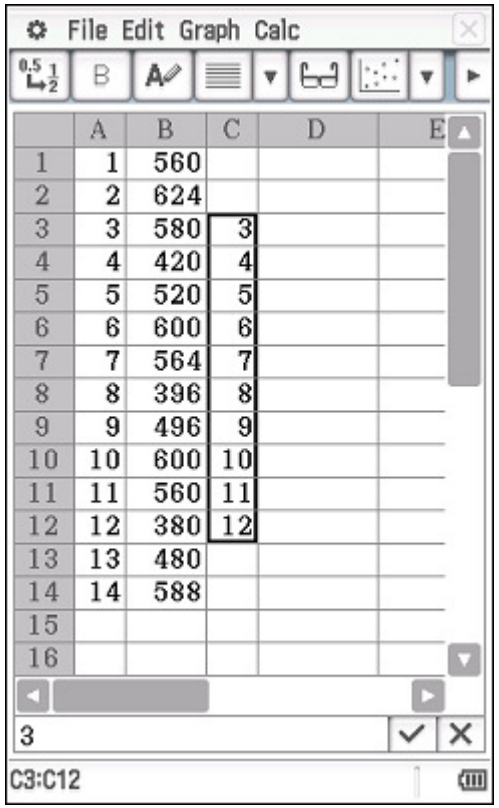
A four-point centred moving average looks appropriate.

Resize the data window.



Copy and paste cells A3 to A12 into cells C3 to C12.

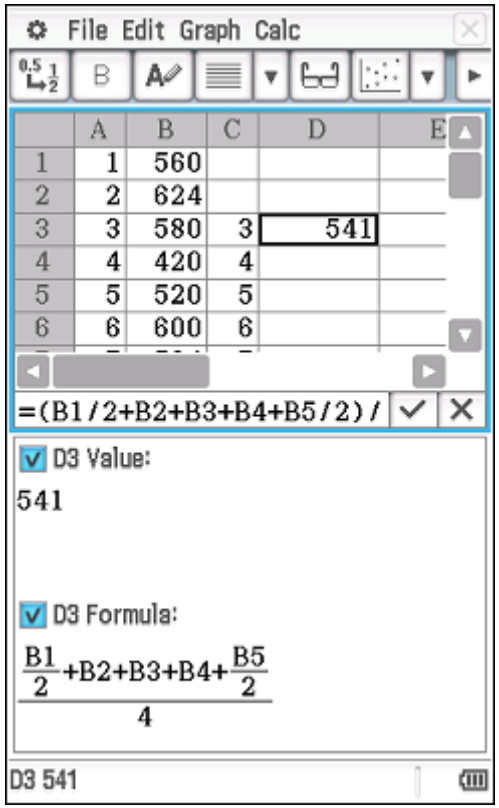
Resize the columns.



Tap into cell D3 and enter the 4-point moving average formula.

Tap on to check.

Resize the data window.



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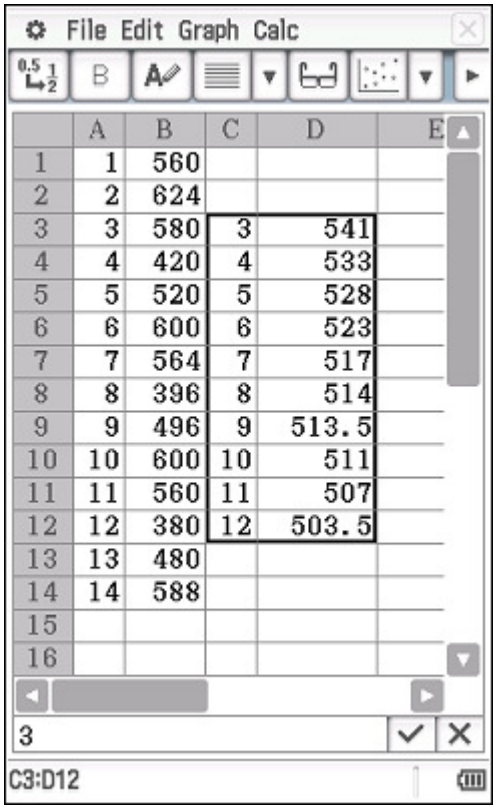
Select cells D3 to D12.

Tap **Edit, Fill Range** and tap **OK**.

Select columns C and D.

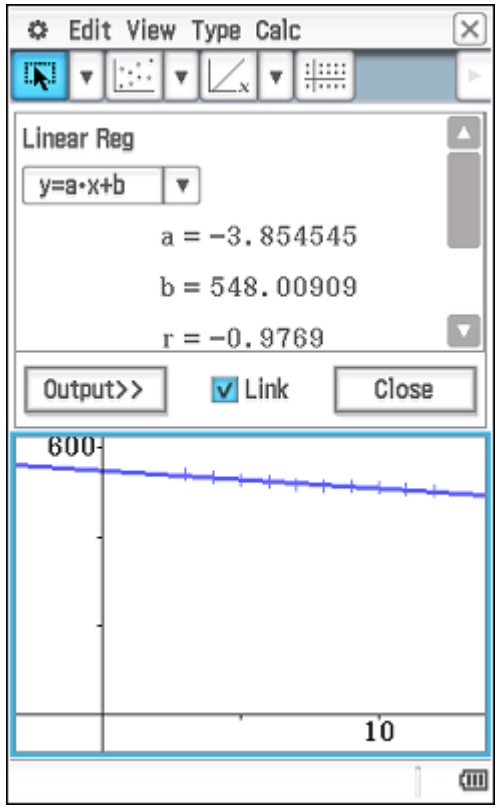


Tap **Graph, Scatter**.

Tap **Calc, Regression, Linear Reg** to obtain the regression line.

Note the coefficients for later use or tap Output>> and store the coefficients within the spreadsheet.

Return to the data window.

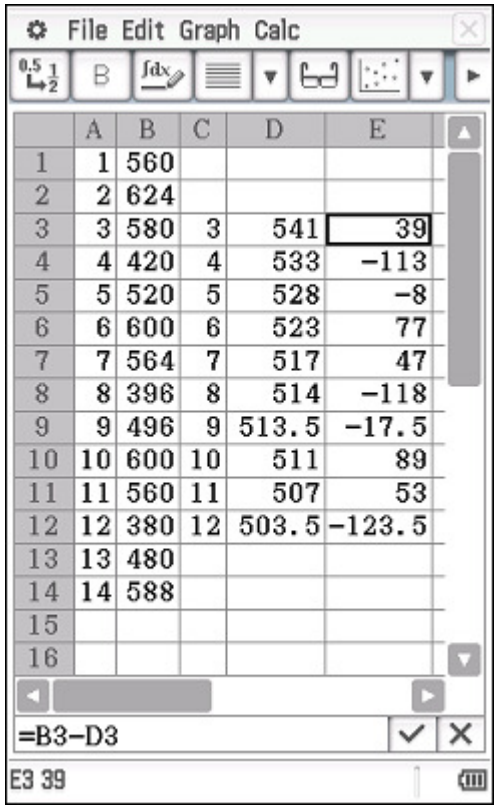


Tap into cell E3 and enter the formula **=B3-D3** to calculate the residual.

Select cells E3 to E12.

Tap **Edit, Fill Range** and tap **OK**.

The residuals may be required when making a prediction.



*An alternative method is to use a program such as **mavII**, free from www.charliewatson.com/classpad.*

***mavII** automates calculations involved in smoothing time series when the data is stored in the Statistics app and also allows for predictions to be made.*