

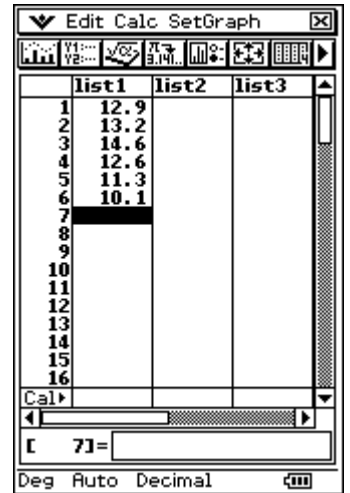
Classpad Help Series sponsored by Casio Education Australia		www.casioed.net.au	
472	Confidence Interval From List Data	Author	Charlie Watson
		Date	31 January 2010
		CPM OS	03.04.4000

Start in Statistics.

The six samples shown in list1 were taken from a population with a known standard deviation of 2.3. Determine the 95% confidence interval for the population mean based on this sample.

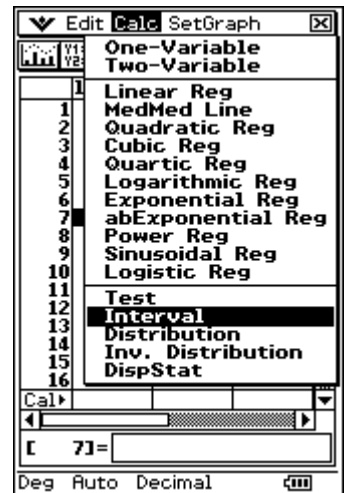
Tap **Edit, Clear All**.

Enter the data into **list1**.



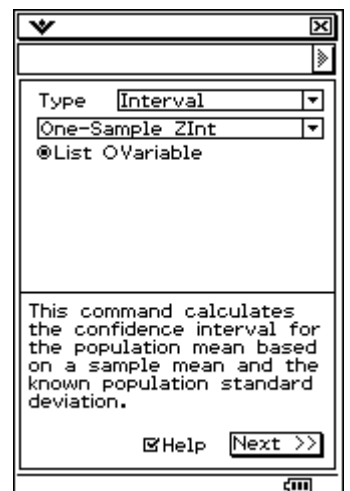
Tap **Calc, Interval**.

In the next window tap the **Help** box.



The display should be as shown - the sample mean will be calculated from the data in a list.

Tap **Next**.

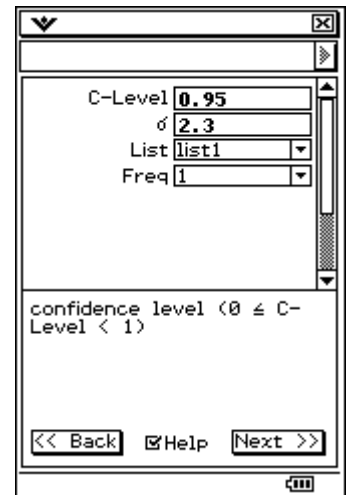


Enter the 95% confidence level as a decimal.

Enter the known population standard deviation of 2.3.

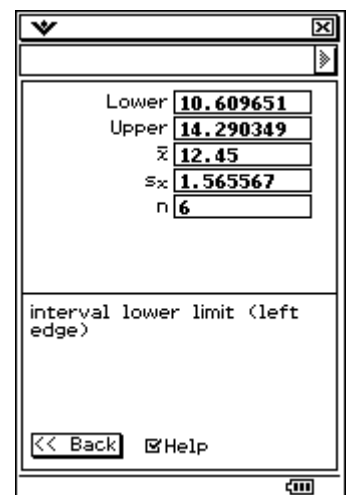
Check the list and frequency settings to match your data.

Tap **Next**.




A screenshot of a software interface for calculating a confidence interval. It features a title bar with a close button (X) and a scroll bar on the right. The main area contains four input fields: 'C-Level' with the value '0.95', 'σ' with '2.3', 'List' with a dropdown menu showing 'list1', and 'Freq' with a dropdown menu showing '1'. Below these fields is a text label 'confidence level (0 ≤ C-Level < 1)'. At the bottom, there are three buttons: '<< Back', a checked 'Help' checkbox, and 'Next >>'. A small icon is visible in the bottom right corner.

The lower and upper bounds of the confidence interval are displayed, together with the sample mean and standard deviation.



A screenshot of the software interface showing the results of a confidence interval calculation. It has a title bar with a close button (X) and a scroll bar on the right. The main area displays five values in a list: 'Lower' (10.609651), 'Upper' (14.290349), \bar{x} (12.45), s_x (1.565567), and 'n' (6). Below this list is a text label 'interval lower limit (left edge)'. At the bottom, there are two buttons: '<< Back' and a checked 'Help' checkbox. A small icon is visible in the bottom right corner.

Tap  to close the Interval tool or back to modify the interval parameters.