

The six samples shown in list1 were taken from a normal population with a known standard deviation of 2.3.

Determine the 95% confidence interval for the population mean based on this sample.

In Statistics, tap **Edit**, **Clear All**.

Enter the data into **list1**.

Tap **Calc**, **Interval**.

In the next window check that a *One-Sample Z Int* is selected and then tap the **Help** box.

With List checked rather than Variable, the sample mean will be calculated from the data in a list.

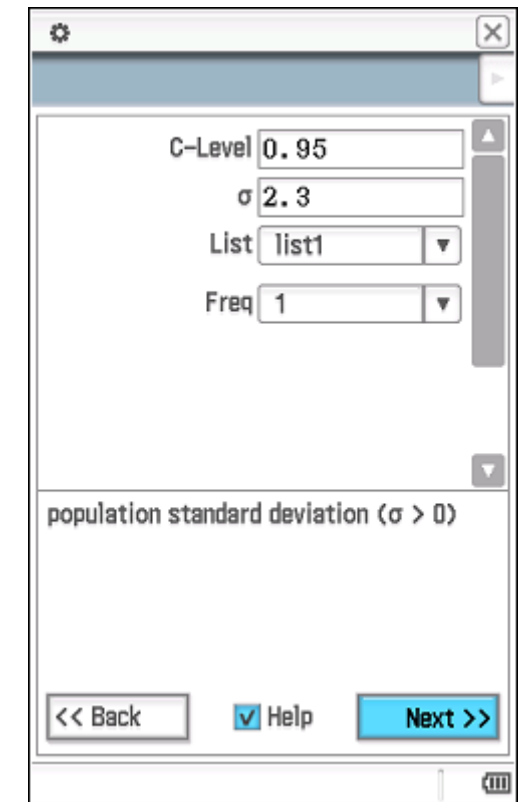
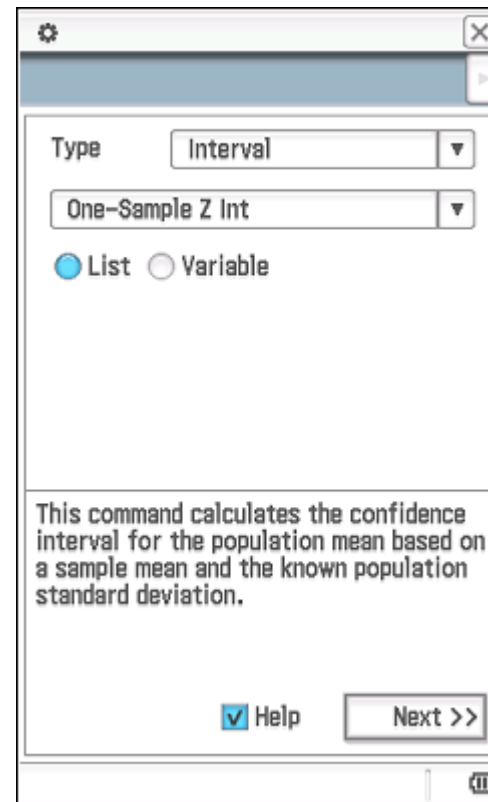
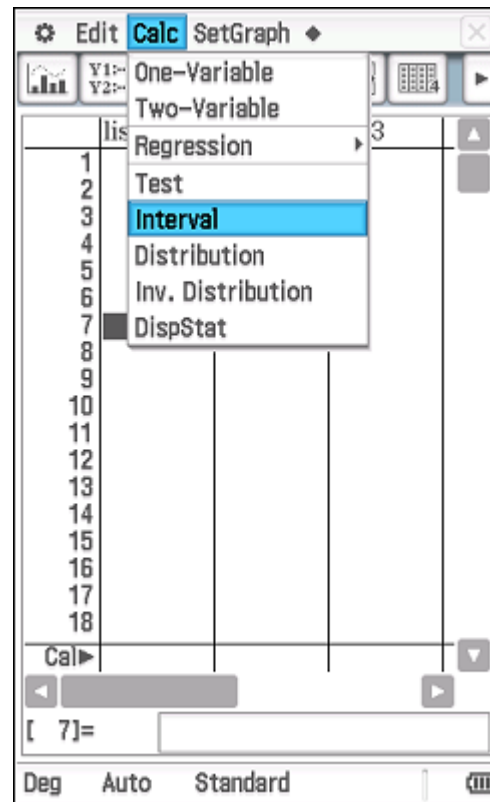
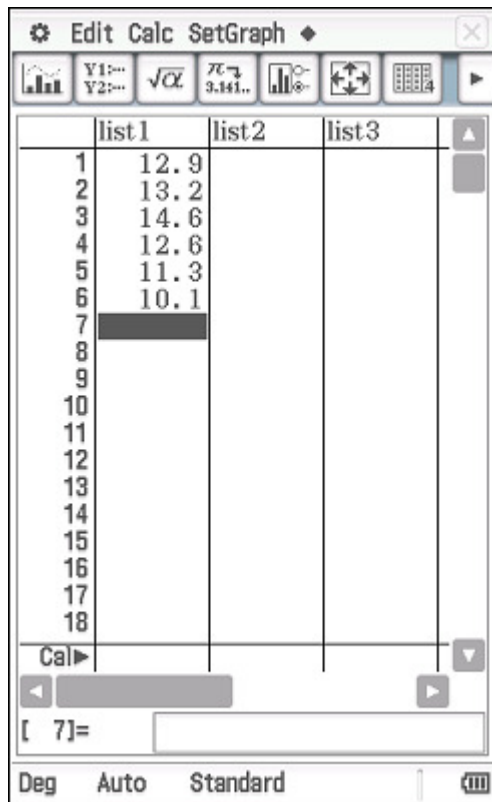
Tap **Next**.

Enter the 95% confidence level as a decimal.


Enter the known population standard deviation of 2.3.

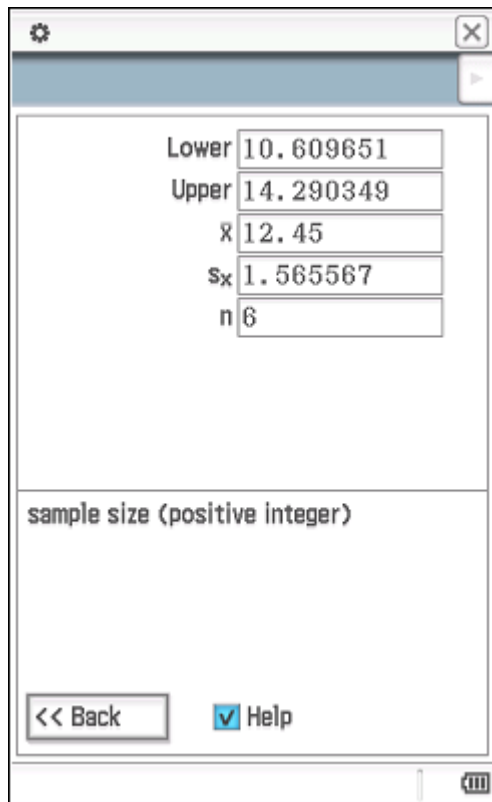
Check the list and frequency settings to match your data.

Tap **Next**.



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

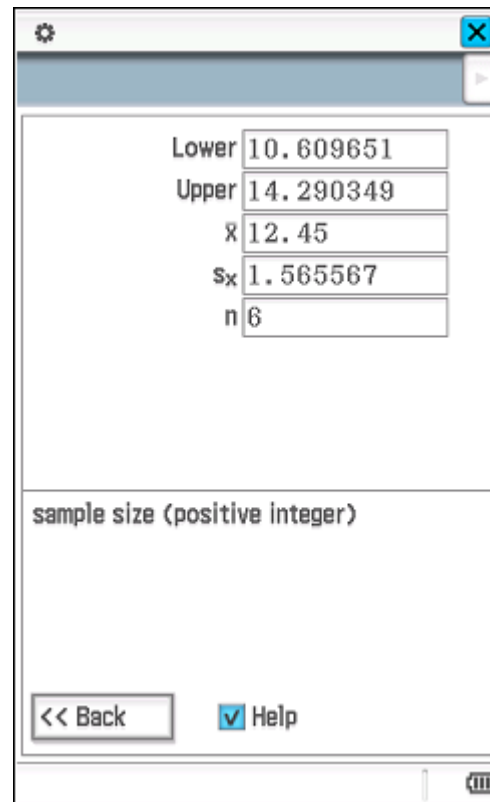
Tap  to close the Interval tool or back to modify the interval parameters.



Lower 10.609651
Upper 14.290349
 \bar{x} 12.45
 s_x 1.565567
n 6

sample size (positive integer)

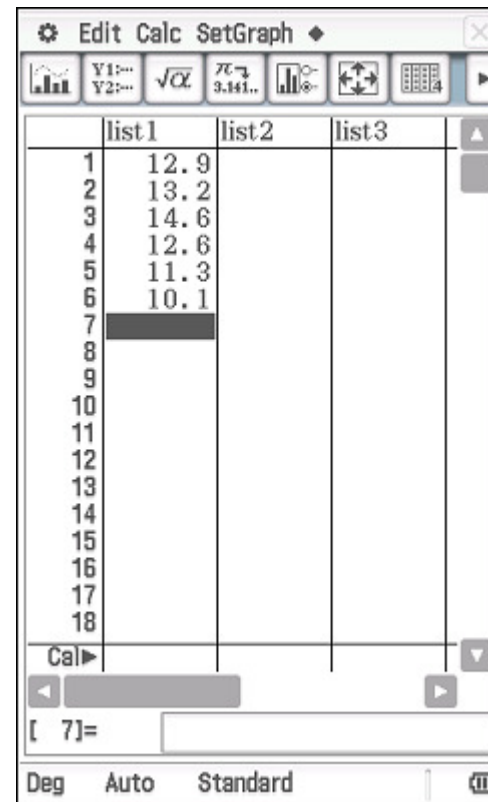
<< Back Help



Lower 10.609651
Upper 14.290349
 \bar{x} 12.45
 s_x 1.565567
n 6

sample size (positive integer)

<< Back Help



	list1	list2	list3
1	12.9		
2	13.2		
3	14.6		
4	12.6		
5	11.3		
6	10.1		
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

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