

CONFIDENCE INTERVALS USING THE Z-DISTRIBUTION

CASIO CFX-9850GB PLUS INSTRUCTIONS

These instructions show how to calculate a confidence interval for the mean of a population from a sample given that the standard deviation of the population is known.

The mean weight of a sample of 60 yabbies from a dam is found to be 84.6 grams. The population standard deviation is known to be 16.8 grams.

A 95% confidence interval for the population mean can be calculated as follows:

Step 1: Choose the **Stat** menu from the main menu.

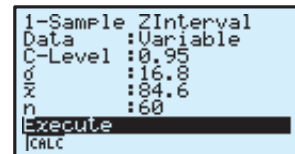
Press **F4** to select the **INTR** menu, then **F1** to select **Z**.

Finally, press **F1** to select **1-S**.



Step 2: Set up the screen as shown to calculate the 95% confidence interval.

(You may need to use **F2** to change the data type from **List** to **Variable**.)



Step 3: Press **F1** to calculate the confidence interval.

So, we are 95% confident that the population mean weight of yabbies lies between 80.349 and 88.85 grams.

