

THE T-TEST

CASIO CFX-9850GB PLUS INSTRUCTIONS

The average house price in a suburb was known to be \$235 000. A sample was taken in 2005 to see whether or not the average price had changed.

200 houses were sampled and the mean was found to be \$215 000 with an unbiased estimate of the standard deviation of \$30 000.

The following steps can be used to determine if the average house price has changed:

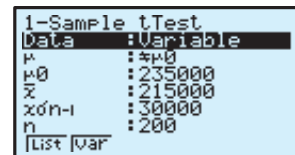
Step 1: Choose the **Stat** menu from the main menu.

Press **[F3]** to select the **TEST** menu, then **[F2]** to select **t**.

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

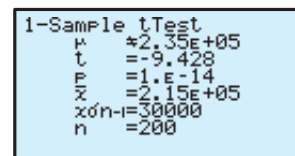


Step 2: Set up the screen as shown.



Step 3: Scroll down to highlight **Execute** and press **[F1]**.

You can also press **[F6]** while **Execute** is highlighted to draw the distribution.



The p -value is less than 0.05, so we reject H_0 . There is sufficient evidence (at the 0.05 level) that the mean is smaller in 2005 than it was in 2004.

Note: The p -value is different from that obtained from the TI-83 calculator.

