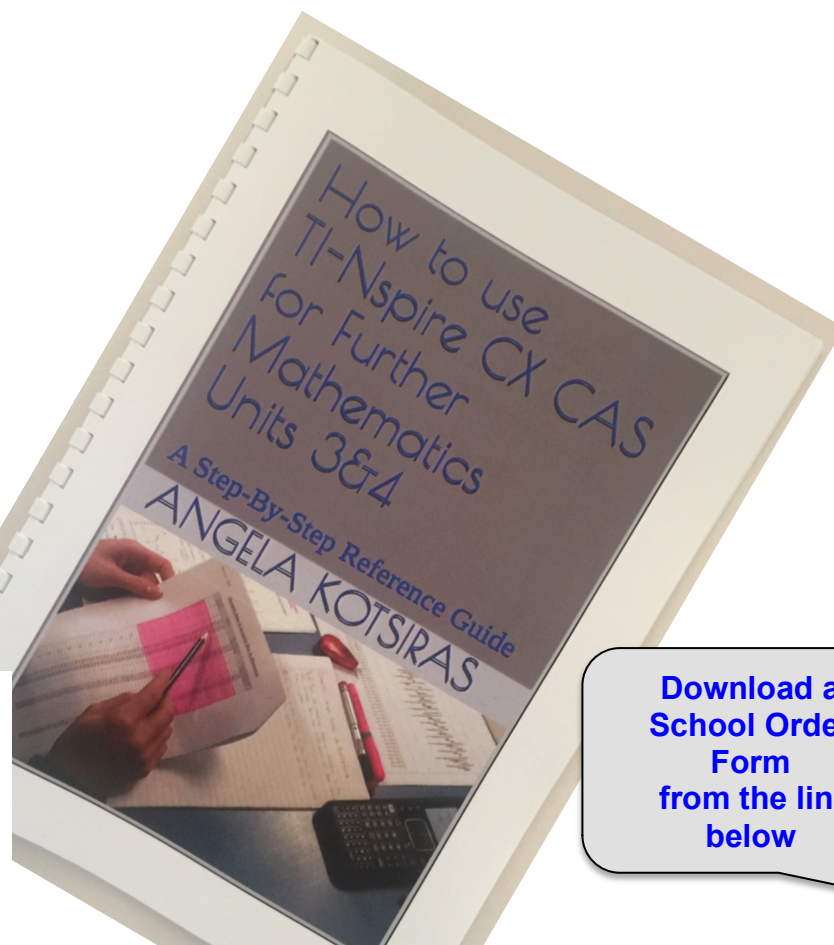


# A STEP-BY-STEP REFERENCE GUIDE ON HOW TO USE TI-NSPIRE CX CAS FOR FURTHER MATHEMATICS UNITS 3&4 AVAILABLE NOW FOR ONLY \$14.95

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**CHECKS AND SETTINGS**

Ensure battery is charged, latest operating system (OS) is installed, correct settings are activated and relevant pre-made programs are installed and working, as shown below:

**Battery check and operating system**

Press **OFF** to home screen.

**Plot 3 Settings - 4 Status** - to check status of battery and operating system.

Note: Status of battery can be seen at the top right corner of the screen and the latest version (4.4.8.22 (as of Feb 2017)) can be downloaded from <http://www.ti.com/education>

**Data and Statistics settings**

Return to home screen and open a **Data & Statistics** page and press **Menu-4-6-2**.

In the pop-up table click on the box to turn **Diagnostic** on, then **OK**, and **Done**.

**General Settings**

Press **[F2]** to return to home screen and press **3 Settings - 2 Document Settings** - to view document settings.

For Document settings, **Display Output** are set to **Fixed** (page 6) set to **Degree** and **Calculator Mode** is set to **Approximate**. **Settings** are not unaltered.

Once changes are made click on **Make Default** and then **OK** so that these settings will apply to all new Documents and Spreadsheets.

**Graphs and Geometry settings**

Return to home screen and press **3 Settings - 1 Graphs and Geometry**.

Ensure **Graphs** and **Geometry** are set to **On**.

Return to home screen and open a **Geometry** page.

Press **Menu-4-6-3** to insert a **Data & Statistics** page. Place cursor on horizontal axis and selected data for the graph.

Ensure **Graphs** and **Geometry** settings are the same as **Graphs settings**, as shown above. Press **Menu-4-6-3** and then **OK**.

**DURING READING TIME, READ THE ENTIRE EXAM ONCE AND THEN GO BACK AND ANSWER AS MANY QUESTIONS AS POSSIBLE THAT REQUIRE NO WORKING.**

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DATA ANALYSIS-UNIVARIATE DATA

**HOW TO CONSTRUCT A HISTOGRAM WITH INTERVALS AND FREQUENCIES**

Press **OFF** to return to home screen and open a new document with a **Lists & Spreadsheet** page.

Enter the following table and set columns for **E** (g) on **Doc**, **Label** column **A** and **B** as shown.

Interval	Frequency
0-2	4
2-3	2
3-4	1
4-5	2
5-6	3
6-7	2
7-8	1
8-9	2

**Solution:**

Press **OFF** to return to home screen and open a new **Lists & Spreadsheet** page.

Press **OFF** to return to home screen and open a new **Lists & Spreadsheet** page. Place cursor on horizontal axis and selected data for the graph.

Note: midpoint of 0-2 is  $\frac{0+2}{2} = 1$ .

**HOW TO CONSTRUCT A BOX PLOT**

Press **OFF** to return to home screen and open a new document with a **Lists & Spreadsheet** page.

Enter the following table and set columns for **E** (g) on **Doc**, **Label** column **A** and **B** as shown.

Interval	Frequency
0-2	4
2-3	2
3-4	1
4-5	2
5-6	3
6-7	2
7-8	1
8-9	2

Press **Menu-1** (Edit) Type **2**, Set **Pd** to obtain **boxplot** for all scores.

**HOW TO CONSTRUCT PARALLEL BOX PLOTS**

Press **Menu-1** (Edit) Type **2**, Set **Pd** to obtain **boxplot** for all scores.

**HOW TO GENERATE RANDOM NUMBERS**

Press **OFF** to return to home screen and open a new document with a **Calculator** page or **NUMBERS** page.

Press **Menu-1** (Edit) Type **2**, Set **Pd** to obtain **boxplot** for all scores.

**‘....students who are not familiar with the use of their CAS calculator, will run out of time in end-of-year exams.’**

*Angela Kotsiras-Author  
VCE Mathematics Teacher*