



Calculator Operation and Configuration

Use this appendix to learn how to operate and configure your calculator for use with this book. This appendix also reviews the conventions used in the book to describe various calculator user operations.

ac1 **Calculator Operation Conventions** **Keystroke Conventions**

The Calculator Keys sections of this book present keystroke-by-keystroke instructions for using your TI-83 or TI-84 family calculator. Individual keys are named by their primary legend and enclosed in a pair of brackets. For example, [2nd] refers to the colored key that starts the second row of keys on your calculator, whereas [ENTER] refers to the key at or near the lower-right corner of your calculator.

To refer to the four cursor keys that are immediately above the [VARS] and [CLEAR] keys, this book uses [◀], [▶], [▲], and [▼]. An instruction that reads “press [STAT][◀]” means press the STAT key followed by the left cursor key.

Note: Some Texas Instruments instructional materials name the secondary legends of keys in their instructions. For example, whereas instructions in this book would always state “press [2nd][STAT]” to display the List menu, some TI materials would say “press [2nd][LIST]” (LIST is the secondary legend of the STAT key).

Calculator Initial State

All instructions assume that you are beginning from the home screen and are not in the middle of some calculator activity. Usually, pressing [CLEAR] will clear your screen and place you on the home screen with a blinking cursor. (For some procedures, you will need to press [2nd][MODE] to return to the home screen.)

Using Menus

The instructions in this book always use menus to select statistical operations. If you are an advanced user who prefers typing command lines to choose a statistical function, you can use that method instead.

Selecting Menus

When you press a key such as the STAT key, you are presented with two or more menu screens. In this book, many instruction sequences contain phrases such as “press [STAT][\blacktriangleleft] to display the Tests menu” that are shortcut ways of selecting a necessary menu screen. For example, pressing [STAT] can lead to the (Stat) Edit, Calc, or Tests menus. When you see a sequence such as “press [STAT][\blacktriangleleft],” make sure you press the cursor key in order to display the correct screen. If you make a mistake, you can press [CLEAR] to start over.

Menu List Choices

When the instructions require you to make choices from an onscreen menu list, this book always states the instruction in the form “select n :*Choice* and press [ENTER].” You use the down cursor key ([\blacktriangledown]) to highlight the choice and then press the [ENTER] key to execute this instruction. If you prefer, you can press the key that corresponds to the n value *without* pressing [ENTER]. For example, given the instruction “select 6:2-PropZTest and press [ENTER],” you could press [6] to immediately jump to the 2-PropZTest screen. As you gain experience selecting tests, you might prefer this method of making a menu list choice.

Busy Screen

Some instructions mention that you will see a “busy screen.” A busy screen is one in which the calculator’s **busy indicator**, a running vertical line in the top-right corner of the screen, is being displayed.

ac2 Calculator Technical Configuration

Memory Initial State

For most Calculator Keys sections, the initial memory state of your calculator is not critical. However, sometimes you may need to **reset** (clear) the memory of the calculator or reset the calculator to its factory default settings. To perform a calculator reset, press [2nd][+] to display the MEMORY screen. Select 7:Reset and press [ENTER] to display the RAM Reset screen. From this screen, press [1][2] to reset RAM memory or press [2][2] to reset the calculator to its factory defaults.

Numeric Notation Settings

Instructions in this book were developed with a calculator set to **Normal** numeric notation and **floating decimal** numeric format. To set your calculator to these settings (or to verify them):

1. Press [MODE] and then select **Normal** and press [ENTER].
2. Press [▼] and then select **Float** and press [ENTER].
3. Press [2nd][MODE] to return to the main screen.

Diagnostics Settings

You will need to turn on “calculator diagnostics” to ensure the proper functioning of certain advanced procedures such as regression. To turn on (or verify that diagnostics are turned on), press [2nd][0] to display the CATALOG screen and then select **DiagnosticOn** and press [ENTER]. When the DiagnosticOn prompt appears onscreen, press [ENTER] a second time to turn the diagnostics on.

Variable Data Value or Program Deletion

To free up memory or ensure the proper working of the accessory program, you can delete the data values that have been stored in a calculator variable that you no longer need. To do this, press [2nd][+] to display the MEMORY screen and then select 2:Mem Mgmt/Del and press [ENTER]. On the next screen, select a choice; for example, 1:All and press [ENTER]. Scroll through the list using the cursor keys to highlight a variable name and then press [DEL] to delete that variable's data values. Although 1:All displays the complete list of variances, 4:List, 5:Matrix, 6:Y-Vars, and 7:Prgm can be more useful choices when using this book.

ac3 Using the A2MULREG Program

The Calculator Keys section in Chapter 11 uses the **A2MULREG** program to perform multiple regression analysis. (This program can also be used for simple linear regression analysis discussed in Chapter 10.) To use this program, you must download it from the Texas Instruments Education Technology website (education.ti.com). Use the website search function to search **A2MULREG** to find the web page that contains the download link as well as full instructions for downloading the program to your computer and then transferring it to your calculator (using one of the Texas Instruments linking cables that is packaged with your calculator or available separately).

When you follow the instructions and successfully transfer the program to your calculator, you can place the program in the user data archive (ARC). If your copy is so archived, you need to unarchive it before you can use it for regression analysis. To unarchive the program, press [2nd][+] to display the MEMORY screen and then select **6:UnArchive** and press [ENTER]. At the UnArchive prompt, press [PGRM] and then select the **A2MULREG** choice and press [ENTER]. On the MEMORY screen, a **5:Archive** choice can prove useful if you want to later save the **A2MULREG** program before clearing RAM memory.

If you have previously downloaded and transferred programs (sometimes called Apps in Texas Instruments materials), you can delete one or more to make room for **A2MULREG**. To delete a program, follow the instructions in the preceding “Variable Data Value or Program Deletion” section and select **7:Prgm** from the MEMORY screen to view the programs you can delete.

ac4 Using TI Connect

To transfer the **A2MULREG** program used in Chapter 11, you need to install the **TI Connect** program that is available on the CD-ROM packaged with your calculator or that you can download from the Texas Instruments Education Technology website (education.ti.com).

This program has many other functions that you can find useful while using this book. For example, the **TI DataEditor** component gives you an alternative way of entering data values for matrix variables (used in Chapter 9 and Chapter 11) as well as list variables (used throughout this book). In particular, the editor provides you with a handy way of transferring worksheet data values and assigning them to list or matrix variables (through a simple

copy-and-paste operation). You can also use **Backup and Restore** to back up and restore the contents of your calculator, including all preloaded programs (Apps) and **TI DeviceExplorer** or **TI DeviceInfo** to learn more about the status of your calculator. If you want to “save” your results screen for later use, consider using **TI ScreenCapture**, the method used to capture and display calculator screens in this book.

Full instructions for using these components or **TI Connect** are available in the TI Connect help system.