



Getting Started
with the
TI-73 Explorer™,
CBL 2™, and CBR™

CL3456

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Turning on and turning off the TI-73 Explorer™

- To turn on the TI-73 Explorer, press **[ON]** located at the lower left corner of the device.
- To turn off the TI-73 Explorer, press **[2nd]**, and then the **[ON]** key. The next time you turn on the TI-73 Explorer, the Home screen appears with the same settings and memory contents retained.

Automatic Power Down™

The Automatic Power Down™ (APD™) feature prolongs battery life by turning off the TI-73 Explorer automatically after five inactive minutes.

When you turn on following APD, the handheld device displays the same information displayed before APD, retaining the same cursor position, settings, memory contents, and any error conditions.

Note: Avoid depleting your batteries by turning off your TI-73 Explorer when not in use.

Adjusting the display contrast

Display brightness and contrast depend on factors such as room lighting, battery freshness, and viewing angle. To adjust the contrast:

1. Press and release **[2nd]**.
2. To darken the screen, press and hold **[▲]**.
— or —
To lighten the screen, press and hold **[▼]**.

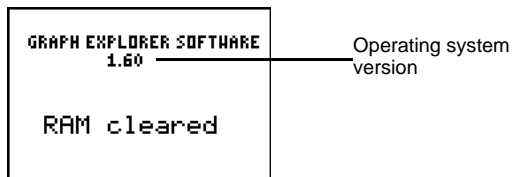
Note: The flashing cursor (■) changes to **■** when you press the **[2nd]** key.

As you adjust the setting, a number from 0 (lightest) to 9 (darkest) appears at the upper right corner of the screen.

Note: If the contrast setting is too light or dark, the number will not be viewable.

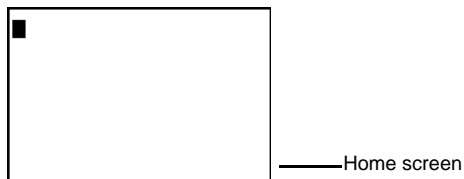
Home screen

The first time you turn on your TI-73 Explorer™, this screen appears:



Note: Download the latest operating system (OS) to your Internet-enabled computer using the TI-Connectivity Kit. Both the latest OS and TI Connectivity Kit are available at education.ti.com/shop.

To clear the screen, press **[CLEAR]** twice. A blank screen with a flashing cursor appears called the *Home screen*. You can use the Home screen to enter problems and view results.




Note: If you press **[CLEAR]** and do not see a blank Home screen, first press **[2nd]**, and then press **[MODE]** to select **[QUIT]**.

Example: Add $2 + 3$ on the Home screen.

Press	Result
$2 + 3$	<p>A rectangular screen with a black border. The text "2+3" is displayed at the top left, followed by a small black square (the cursor).</p>
[ENTER]	<p>A rectangular screen with a black border. The text "2+3" is displayed at the top left, and the number "5" is displayed at the top right.</p>

Example: Multiply 5 x 4.

Press	Result
5 \times 4 ENTER	 A rectangular display area representing a calculator screen. The text "5*4" is on the left and "20" is on the right, both in yellow. A small cursor is visible at the end of the "20".

Entering secondary functions 2nd

Secondary functions are printed in yellow above the keys. To select a secondary function, first press the yellow 2nd key, and then press a key with a secondary function.

For example, to view the CATALOG menu, press 2nd [CATALOG].

Note: The flashing cursor (■) changes to ■ when you press the 2nd key.

Entering text $\boxed{2nd}$ [TEXT]

You can use the Text Editor to key in text, such as alphabetic characters, braces, quotation marks, spaces, and relations.

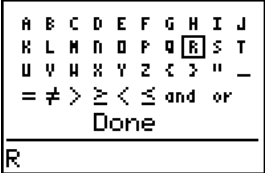


- To access the Text Editor, press $\boxed{2nd}$ [TEXT].
- To return to the Home screen from the Text Editor:

Select **Done** in the Text Editor and press \boxed{ENTER} .

— or —

To cancel the operation, press $\boxed{2nd}$ [QUIT].

Example: Insert **R** on the Home screen.

Press	Result
$\boxed{2nd}$ [TEXT] R \boxed{ENTER} Note: To select R , press $\boxed{\downarrow}$, $\boxed{\rightarrow}$, $\boxed{\downarrow}$ and $\boxed{\uparrow}$ as needed. R is pasted to the entry line.	 R
$\boxed{\downarrow}$ $\boxed{\downarrow}$ $\boxed{\downarrow}$ (to select Done)	 R
\boxed{ENTER}	 R

Clear **CLEAR** and **Quit** **2nd** [QUIT]

Clear **CLEAR**

The **CLEAR** key is located just below the four cursor keys at the upper right corner of the keyboard.

- Pressing **CLEAR** while entering information clears the entry line.
- Pressing **CLEAR** when the cursor is on a blank line clears the Home screen.

Note: Although it does not affect calculations, consider clearing the Home screen before beginning a new problem. We recommend that you press **CLEAR** each time you begin a new example in this guide to ensure that the screen you see matches the one in the example.

Quit **2nd** [QUIT]

If you want to return to the Home screen after pressing a menu key, press **2nd** [QUIT].

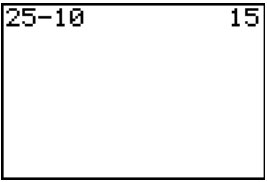
Note: To return to the Home screen and clear it, press **2nd** [QUIT] **CLEAR**.

Using subtraction \square and negation \square keys

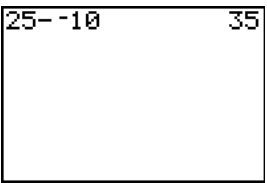
- Use \square to enter subtraction operations.
- Use \square to enter a negative number in an operation, expression, or on a setup screen.

Note: The TI-73 Explorer™ subtraction and negation symbols appear slightly different to make them easier to distinguish. The negative symbol is raised and slightly shorter.


Example: Subtract 10 from 25.

Press	Result
$25 \square 10$ \square	

Example: Subtract -10 from 25.

Press	Result
$25 \square \square 10$ \square	

Example: Subtract -5 from 25.

Press	Result
$25 \square \square 5$ \square	

Note: If you use the subtraction key instead of the negation key, an error message will appear. (See "Error messages" on page 28.)

Keyboard math applications

Example: Add $-456 + 123$.

Press	Result
$(-)$ 4 5 6 $+$ 1 2 3 ENTER	<pre>-456+123 -333</pre>

Example: Divide $45.68 \div 123$.

Press	Result
4 5 $.$ 6 8 \div 1 2 3 ENTER	<pre>-456+123 -333 45.68/123 .3713821138</pre>

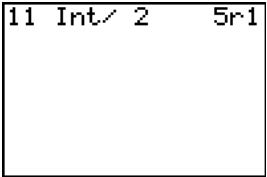
Example: Multiply 28×1.5 .

Press	Result
2 8 \times 1 . 5 ENTER	<pre>28*1.5 42</pre>

Integer division $\boxed{2\text{nd}}$ $\boxed{[\text{INT}\div]}$

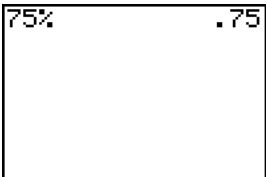
$\boxed{2\text{nd}}$ $\boxed{[\text{INT}\div]}$ divides two positive integers and displays the quotient and remainder (**r**).

Example: Calculate $11 \div 2$ using integer division.

Press	Result
$11 \boxed{2\text{nd}} \boxed{[\text{INT}\div]} 2$ $\boxed{\text{ENTER}}$ Note: The answer is 5 with a remainder of 1.	

Percent $\boxed{\%}$

Example: Convert 75% to a decimal.

Press	Result
$75 \boxed{\%}$ $\boxed{\text{ENTER}}$	

Square x^2

Example: Calculate 5^2 .

Press	Result
5 x^2 ENTER	5^2 25

Example: Compare the results of -5^2 and $(-5)^2$.

Press	Result
(-) 5 x^2 ENTER	5^2 25 -5^2 -25
(((-) 5)) x^2 ENTER	5^2 25 -5^2 -25 $(-5)^2$ 25

Square root $\boxed{2\text{nd}} \boxed{\sqrt{}}$

Example: Calculate $\sqrt{256}$.

Press	Result
$\boxed{2\text{nd}} \boxed{\sqrt{}} \mathbf{256} \boxed{} \boxed{\text{ENTER}}$	$\sqrt{(256)} \quad 16$

Pi $\boxed{2\text{nd}} \boxed{\pi}$

The TI-73 Explorer™ displays $\pi = 3.141592654$ but uses 3.1415926535898 in calculations.

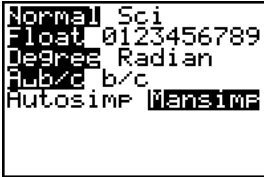

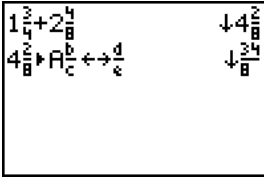
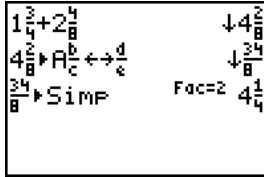
Example: Multiply $4 \times \pi$.

Press	Result
$\mathbf{4} \boxed{\times} \boxed{2\text{nd}} \boxed{\pi} \boxed{} \boxed{\text{ENTER}}$	$4*\pi \quad 12.56637061$

Fractions


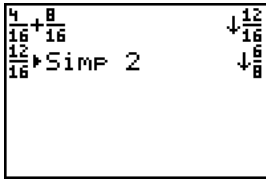
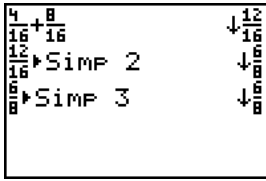
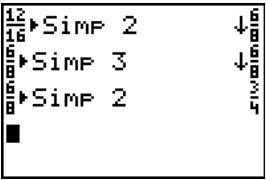
This example shows the stacked fraction and manual simplification features of the TI-73 Explorer™. (See Chapter 3 of the *TI-73 Explorer Software Graphing Calculator Guidebook*.)

Example: Add $1\frac{3}{4} + 2\frac{4}{8}$ and manually simplify the result.

Press	Result
<p>[MODE]</p> <p>▼▼▼▼▼</p> <p>[ENTER] [2nd] [QUIT]</p> <p>(to select Mansimp)</p>	
<p>1 [UNIT] 3 [b/c] 4 [▶] [+]</p> <p>2 [UNIT] 4 [b/c] 8 [ENTER]</p> <p>Note: The arrow on the screen indicates that the answer can be simplified.</p>	
<p>[A^b↔d] [ENTER]</p> <p>(optional step to convert mixed fraction to simple fraction)</p>	
<p>[SIMP] [ENTER]</p> <p>(to simplify the result)</p>	

Choosing the simplification factor

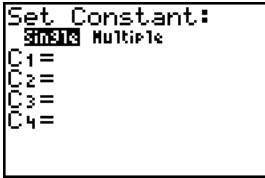
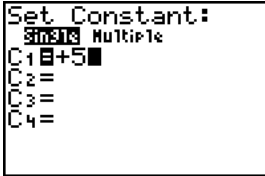

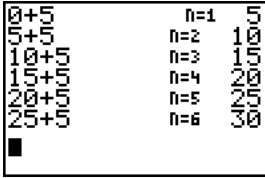
Example: Add $\frac{4}{16} + \frac{8}{16}$ and choose the simplification factor to reduce the sum to lowest terms.

Press	Result
$\text{[2nd]} \text{[QUIT]} \text{[CLEAR]}$ $4 \text{[b/c]} 16 \text{[+]} 8 \text{[b/c]}$ 16[ENTER]	
$\text{[SIMP]} 2 \text{[ENTER]}$	
$\text{[SIMP]} 3 \text{[ENTER]}$ Because the result did not change, try another factor.	
$\text{[SIMP]} 2 \text{[ENTER]}$ Simplification is complete.	

Constants with counter-creating number patterns

The TI-73 Explorer™ Constant feature makes it easy to create number patterns. Watch the pattern in the example below take shape on the Home screen.

Example: Set up a SINGLE counter, define a constant (+5), and create a number pattern.

Press	Result
$\boxed{2\text{nd}} \boxed{\text{SET}}$ $\boxed{\blacktriangle}$ (if necessary) $\boxed{\text{ENTER}}$	
$\boxed{\blacktriangledown} \boxed{+} \boxed{5}$	
$\boxed{2\text{nd}} \boxed{0} \boxed{\text{QUIT}} \boxed{\text{CLEAR}}$	
$0 \boxed{\text{CONST}}$ (Press $\boxed{\text{CONST}}$ repeatedly until you reach 30.)	

Scrolling on the Home screen

The TI-73 Explorer™ scrolling feature helps make number investigation easy by providing a copy and paste functionality.

Example: Sum the second ($5 + 5$) and fifth ($20 + 5$) terms of the number pattern created in the previous example. (See “Constants with counter-creating number patterns” on page 17.)

Press	Result
Press Δ repeatedly to select the second term ($n=2$).	
ENTER	
+	
Press Δ repeatedly to select the fifth term ($n=5$).	
ENTER ENTER	

Using parentheses ()

Example: Multiply $4 * 1 + 2$ and $4 * (1 + 2)$.

Press	Result
$4 \times 1 + 2$ ENTER	$4*1+2$ 6
$4 \times (1 + 2)$ ENTER	$4*1+2$ 6 $4*(1+2)$ 12

Example: Divide $1/2 \div 2/3$ (not using stacked fraction capability).

Press	Result
$(1 \div 2) \div$ $(2 \div 3)$ ENTER	$(1/2)/(2/3)$.75

Example: Calculate $16 \wedge \frac{1}{2}$.

Press	Result
$16 \wedge (1 \div 2)$ ENTER	$16^(1/2)$ 4

Note: Try each of the examples above without the parentheses and see what happens!

TI-73 Explorer™ menus

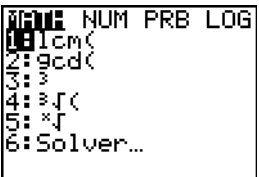
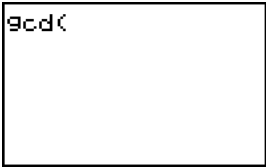
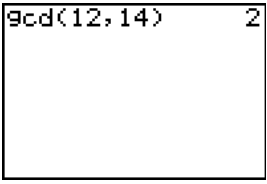
You use a menu to enter most TI-73 Explorer functions and instructions on the Home screen.

To select an item from a displayed menu:

- Press the number or letter displayed to the left of the item.
— or —
- Use the cursor keys (\downarrow or \uparrow) to select the item, and then press $\boxed{\text{ENTER}}$.

Some menus close automatically when you make a selection. If a menu remains open, press $\boxed{2\text{nd}} \boxed{\text{QUIT}}$ to exit.

Example: Find the $\text{gcd}(12, 14) = 2$.

Press	Result
$\boxed{\text{MATH}}$	 The MATH menu is displayed on the screen. At the top, it shows 'MATH NUM PRB LOG'. Below that, a list of options is shown: 1: lcm(, 2: gcd(, 3: ^, 4: ^r, 5: ^r, 6: Solver...
2 — or — $\downarrow \boxed{\text{ENTER}}$	 The gcd(menu is displayed on the screen, showing 'gcd(' followed by a blank space for input.
1 2 , 1 4 $\boxed{\text{)}} \boxed{\text{ENTER}}$	 The calculator screen shows the result of the calculation: 'gcd(12,14) 2'.

Selected TI-73 Explorer™ menus

To select	Description	Press
Mode menu	Lists commands that let you control how numbers are displayed and interpreted	[MODE]
MATH menu	Lists math functions, including number, probability, and logic	[MATH]
DRAW menu	<ul style="list-style-type: none">• Lists graph and plot drawing tools• Lets you store pictures in memory	[DRAW]
List Editor	Lets you enter numerical and text, or <i>categorical</i> , lists	[LIST]
Program menu	Lists stored programs and programming commands and instructions	[PRGM]
APPLICATIONS menu	Lists the Apps installed on your TI-73 Explorer	[APPS]
Text Editor	Lets you enter text, such as alphabetic characters, braces, test operators, quotation mark, space	[2nd] [TEXT]
Trigonometry menu	Lists trigonometric functions and angle unit options	[2nd] [TRIG]
Statistics menu	Lets you open and edit lists and calculate statistical analysis on lists	[2nd] [STAT]
MEMORY menu	Lets you manage TI-73 Explorer memory	[2nd] [MEM]
VARS menu	Lists variable names you can paste to the entry line	[2nd] [VARS]
CATALOG menu	Lists all built-in functions and instructions	[2nd] [CATALOG]

TI-73 Explorer graphing menus

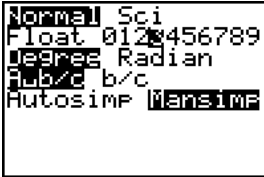
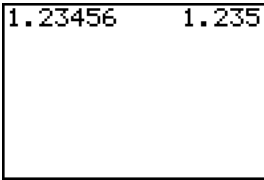
To select	Description	Press
WINDOW menu	Lists domain and range options for the graphing window	[WINDOW]
ZOOM menu	Lists preset window settings to select	[ZOOM]
PLOT menu	Lists options that let you set up a plot	[2nd] [PLOT]

To select	Description	Press
TABLE SETUP menu	Lists options specifying table settings	2nd [TBLSET]
Window format menu	Lets you choose display settings for function graphing and statistical plotting	2nd [FORMAT]

Changing mode settings

Use mode settings to specify how the TI-73 Explorer™ interprets entries and displays answers.

Example: Change the mode setting for decimals from *Float* to 3 decimal places.

Press	Result
<p>MODE</p> <p>▼ ▶ ▶ ▶ ▶ ▶</p> <p>ENTER</p>	
<p>2nd [QUIT]</p> <p>1 [.] 2 3 4 5 6</p> <p>ENTER</p> <p>Note: Rounds to three decimal places.</p>	

Note: You must highlight a mode setting and press **ENTER** to change it.

Mode settings

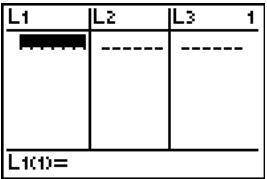

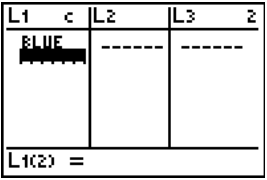
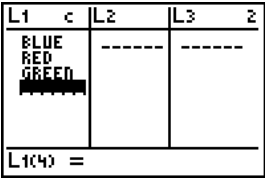
Mode	Description	Display
Numeric Notation	Displays answers in normal or scientific notation	Normal Sci
Decimal Notation	Displays answers in fixed- or floating-decimal point	Float 0123456789
Angle	Displays angle values in degrees or radians	Degree Radian
Display Format (fractions only)	Displays fractions in mixed or simple format	A_b/c b/c
Simplification (fractions only)	Lets you simplify fractions automatically or manually	Autosimp Mansimp

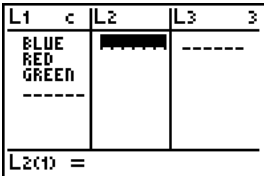
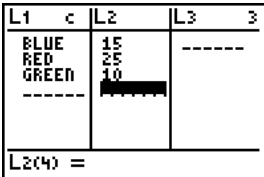
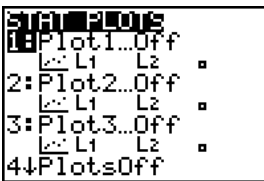

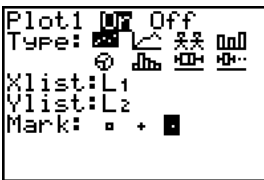
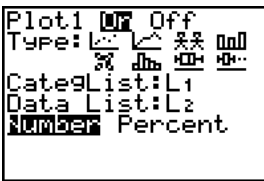
Creating lists and statistical plots

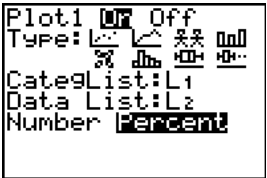
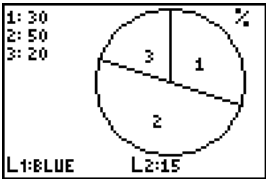
To create categorical and number lists:

1. Use the List Editor to enter the categorical and numerical lists.
2. Use the PLOT menu to plot the lists.

Example: Enter a categorical list in L_1 made up of list elements BLUE, RED, and GREEN, enter a number list in L_2 , and plot a pie chart.

Press	Result
$\boxed{\text{LIST}}$	
$\boxed{2\text{nd}} \boxed{\text{TEXT}}$ Note: Press the cursor keys to highlight characters in the Text Editor. $\boxed{\text{ " }} \boxed{\text{ENTER}} \boxed{\text{ B }} \boxed{\text{ENTER}} \boxed{\text{ L }} \boxed{\text{ENTER}}$ $\boxed{\text{ U }} \boxed{\text{ENTER}} \boxed{\text{ E }} \boxed{\text{ENTER}} \boxed{\text{ " }} \boxed{\text{ENTER}}$ Done Note: To define categorical lists, enclose the first list element in quotation marks.	
$\boxed{\text{ENTER}} \boxed{\text{ENTER}}$ Note: The lowercase c next to L_1 signifies the list is defined as categorical.	
Repeat steps for RED and GREEN. Note: You do not have to use quotation marks after the first list element.	

Press	Result
<p style="text-align: center;">▶</p> <p style="text-align: center;">(to move cursor to L2)</p>	
<p>1 5 ENTER 2 5 ENTER 1 0 ENTER</p> <p>Note: The mode setting for decimals in this example is set to Float. (See “Changing mode settings” on page 23.)</p>	
<p style="text-align: center;">2nd [PLOT]</p>	
<p style="text-align: center;">ENTER</p>	
<p style="text-align: center;">◀ ENTER</p> <p style="text-align: center;">(to enter statistical plot setup screen and turn Plot 1 on)</p>	
<p style="text-align: center;">▼▶▶▶▶</p> <p style="text-align: center;">ENTER</p> <p style="text-align: center;">(to select the pie chart)</p>	

Press	Result
<p style="text-align: center;"> ▼ ▼ ▼ ▼ [ENTER] </p> <p>(to display numbers on the pie chart as percentages)</p>	
<p style="text-align: center;">[GRAPH] [TRACE]</p>	

Note: Press [2nd] [QUIT] to return to the Home screen.

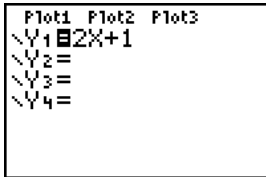
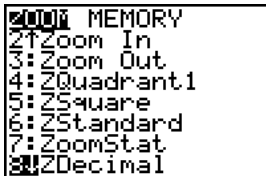


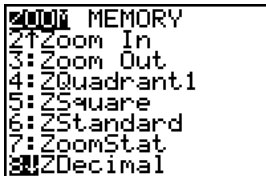
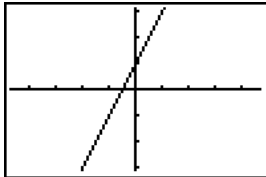
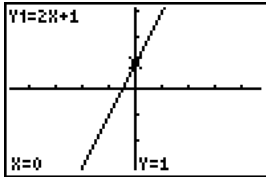
Graphing a line

To graph a line:

1. Display the Y= Editor.
2. Enter the line.
3. Display the graph.

(See the *TI-73 Explorer™ Software Graphing Calculator Guidebook* for more detailed information.)

Example: Graph the line $Y = 2x + 1$.

Press	Result
$Y=$ [CLEAR] 2 [X] + 1 Note: The Y1 equal sign highlights when you enter a character. If another plot or function is highlighted, select it and press [ENTER] to remove the highlight.	 <pre> Plot1 Plot2 Plot3 \Y1=2X+1 \Y2= \Y3= \Y4= </pre>
[ZOOM]  (to select ZDecimal and set up x and y values on graph) Note: The arrow next to ZDecimal indicates that you can press  or  to display additional commands.	 <pre> ZOOM MEMORY 2:Zoom In 3:Zoom Out 4:ZQuadrant1 5:ZSquare 6:ZStandard 7:ZoomStat 8:ZDecimal </pre>
[ENTER]	
[TRACE]	Note: TRACE lets you use the cursor keys to trace to points to see coordinates on the line. 

Error messages

The TI-73 Explorer™ displays an error message whenever an error occurs.

Example: Generate an error by entering the least common multiple function **lcm()** followed by only one number.

Press	Result
<p>2nd [QUIT] [CLEAR] [MATH] [ENTER] 2 7 [] (to select lcm())</p>	<pre>lcm(27,</pre>
<p>[ENTER]</p>	<pre>ERR:SYNTAX 1:Quit 2:Goto</pre>

- To return to the Home screen with the cursor on a new entry line, select **1:Quit**.
- To correct the error, select **2:Goto**. The TI-73 Explorer returns to the original entry line with the cursor flashing at the location of the error.

(See Appendix B of the *TI-73 Explorer Software Graphing Calculator Guidebook* for a complete list of error conditions with explanations.)

Sample error messages

Error	Description
BREAK	You pressed [ON] to break a program execution, halt a DRAW instruction, or stop evaluation of an expression.
DIM MISMATCH	You attempted an operation that references more than one list with different dimensions (number of elements).
DIVIDE BY 0	You attempted to divide by 0. Note: Because The TI-73 Explorer allows undefined values on a graph, this error is not displayed during graphing.

Error	Description
DOMAIN	<p>You specified an argument to a function or instruction outside the valid range, such as using a negative frequency in box plots.</p> <p>Note: Because The TI-73 Explorer™ allows undefined values on a graph, this error is not displayed during graphing.</p>
ERROR IN XMIT	<ul style="list-style-type: none"> • The TI-73 Explorer was unable to transmit an item. Check to see that the cable is connected firmly to both units and that the receiving unit is in the receive mode. • You pressed [ON] to break during transmission.
MODE	You pressed [SIMP] to simplify a fraction while in the Autosimp mode.
SCALE	The Pictograph scale is invalid and must be an integer between 1 and 99,999.
STAT	You attempted a stat calculation with inappropriate lists.
STAT PLOT	You attempted to display a graph while a stat plot with an undefined list is on.
SYNTAX	The command contains a syntax error. Look for misplaced functions, arguments, parentheses, or commas. (See the <i>TI-73 Explorer Software Graphing Calculator Guidebook</i> .)
WINDOW RANGE	<p>A problem exists with the WINDOW variables.</p> <ul style="list-style-type: none"> • You defined Xmax ≤ Xmin or Ymax ≤ Ymin. • Ensure that your window values are within the limits of the TI-73 Explorer.

MEMORY menu $\boxed{2\text{nd}}$ $\boxed{[\text{MEM}]}$


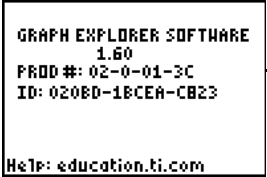

To display the list of commands used to manage TI-73 Explorer™ memory, press $\boxed{2\text{nd}}$ $\boxed{[\text{MEM}]}$ to open the MEMORY menu.

To select a command from the MEMORY menu, use the cursor keys to select it and press $\boxed{[\text{ENTER}]}$.

To exit the MEMORY menu or a command screen and display the Home screen, press either $\boxed{2\text{nd}}$ $\boxed{[\text{QUIT}]}$ or $\boxed{[\text{CLEAR}]}$.

(See Chapter 14 of the *TI-73 Explorer Software Graphing Calculator Guidebook*.)

Example: Display and exit the About screen.

Press	Result
$\boxed{2\text{nd}}$ $\boxed{[\text{MEM}]}$	
$\boxed{[\text{ENTER}]}$ (to display the About screen)	
$\boxed{[\text{CLEAR}]}$ $\boxed{[\text{CLEAR}]}$	

Command Action

1:About Displays TI-73 Explorer product information, such as the operating system version number and product ID.

2:Check RAM Displays the amount of total available memory and the amount of usage for each variable type.

Command	Action
3:Check APPs	Displays the amount of available App memory (up to eight spaces).
4:Delete	Displays a list of variables that you can delete to increase the amount of available RAM.
5:Clear Home	Clears the Home screen.
6:ClrAllList	Clears all lists in memory.
7:Reset	Displays the RESET menu, where you can reset all RAM and all defaults.

3:Check APPs [2nd] [MEM]

The **3:Check APPs** command displays the Spaces Free screen, where you can view the memory available for Apps in terms of *spaces*. Apps spaces are used by preloaded Apps. The preloaded CBL™/CBR™ App uses one space.

The screen also lists the Apps loaded on the TI-73 Explorer™ and the number of spaces each uses.

Note: Because Apps do not use RAM, you cannot delete Apps by pressing [2nd] [MEM] **4:Delete 1:All**. Instead, press [2nd] [MEM] **4:Delete 8:Apps** to delete Apps.

(See Chapter 13 of the *TI-73 Explorer Software Graphing Calculator Guidebook* for information on running Apps on the TI-73 Explorer.)

Resetting memory and defaults

Follow these steps to clear all memory and reset the TI-73 Explorer to factory settings:

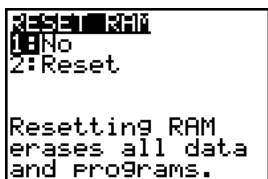
- To display the MEMORY menu, press [2nd] [MEM].



- To display the RESET menu, press **7:Reset**.



- To display the RESET RAM menu, press **1:All RAM**.



- Press **2:Reset**.



- Press **CLEAR** to display the Home screen.



Note: When you reset the TI-73 Explorer™, the display contrast is also reset and might need to be adjusted. See "Adjusting the display contrast" on page 5.

Installing handheld software applications

You can update the functionality of your TI-73 Explorer™ by installing handheld software applications (Apps). Installing Apps on your TI-73 Explorer is similar to installing new software applications on your computer.

After downloading an App to your computer, use TI Connect™ or TI-GRAPH LINK™ software and a TI Connectivity cable to install the App on your TI-73 Explorer. You can find the latest Apps and a TI Connectivity Kit at education.ti.com/shop.

Note: Before downloading an App, ensure your TI-73 Explorer has enough memory available. (See “3:Check APPs [2nd] [MEM]” on page 31.) If not, consider saving an existing App to your computer and then deleting it from your handheld to increase the amount of free space available.

Instructions for Windows® using TI Connect

Desktop icon method

1. Connect your computer and handheld device with the TI Connectivity cable.
2. Turn on the handheld device and go to the Home screen.
3. Select an App file to transfer to the handheld device.
4. Drag the App file to the TI Connect desktop icon on the Windows desktop.
5. A message advises you when installation is complete. Remove the TI Connectivity cable from the computer or device.

DeviceExplorer method





1. Connect your computer and handheld device with the TI Connectivity cable.
2. Turn on the handheld device and go to the Home screen.
3. Start the TI Connect software and click **DeviceExplorer**. The software automatically detects the type of connected TI device and displays the contents.
4. On the **DeviceExplorer** icon toolbar, click the Windows Explorer icon.
5. Locate an App file to transfer to the handheld device.
6. Drag the App file to the TI Connect desktop icon on the Windows desktop.
7. A message advises you when installation is complete. Remove the TI Connectivity cable from the computer or device.

Instructions for Macintosh® using TI Connect™

1. Connect your computer and handheld device with the TI Connectivity cable.
2. Turn on the handheld device and go to the Home screen.
3. Start the TI Connect software and click **Connection** to connect with the handheld device.
4. From the displayed list, select a device type and computer port.
5. Click **Connect**. The device window appears.
6. Locate an App file to transfer to the handheld device.
7. Drag the App file anywhere in the device window.
8. A message advises you when installation is complete. Remove the TI Connectivity cable from the computer or device.



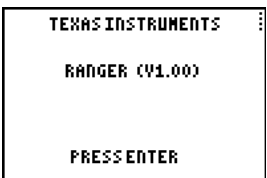
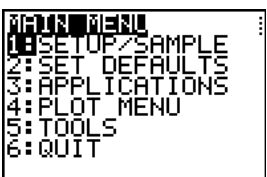

Running software applications

Example: Run the CBL™/CBR™ App on your TI-73 Explorer™.

Press	Result
<p>[APPS]</p>	
<p>Press  or  as needed to run the CBL/CBR App.</p> <p>[ENTER]</p>	

Collecting data using the CBL™/CBR™ App

Example: Run the RANGER program from the CBL/CBR App.

Press	Result
To run the CBL/CBR App, see "Running software applications" on page 35	 <p>TEXAS INSTRUMENTS CBL/CBR™ version 1.4 PRESS ANY KEY</p>
Press any key.	 <p>CBL/CBR APP: 1: GAUGE 2: DATA LOGGER 3: RANGER 4: QUIT</p>
<input type="checkbox"/> <input type="checkbox"/> ENTER (to run the RANGER program)	 <p>TEXAS INSTRUMENTS RANGER (V1.00) PRESS ENTER</p>
ENTER	 <p>MAIN MENU 1: SETUP/SAMPLE 2: SET DEFAULTS 3: APPLICATIONS 4: PLOT MENU 5: TOOLS 6: QUIT</p>
<input type="checkbox"/> ENTER (to set defaults)	 <p>MAIN MENU ▶START NOW REALTIME: YES TIME(S): 15 DISPLAY: DIST BEGIN ON: ENTER SMOOTHING: NONE UNITS: METERS</p>

Each menu item helps you quickly set up data collection using the CBR. Investigate on your own.

Collecting data using the CBL 2™

To use the CBL 2 data collection system for the first time and use the temperature probe to collect data:

1. Insert batteries in the CBL 2.
2. Connect the CBL 2 to the TI-73 Explorer™ using the unit-to-unit cable.

Note: You can also use the cradle. (For instructions, see the diagram on the cradle, or see *Getting Started With the CBL 2.*)

3. To delete the DataMate programs prior to installing the DataMate App, reset the memory on your TI-73 Explorer. (See "Resetting memory and defaults" on page 31.)

Note: Before downloading the DataMate App, ensure that your TI-73 Explorer has at least 3 App spaces available. (See "3:Check APPs [2nd] [MEM]" on page 31.) If not, consider saving an existing App to your computer and then deleting it from your handheld to increase the amount of free space available.

4. Put the TI-73 Explorer in Receive mode.
 - a. Press [APPS]. **Link** is highlighted.
 - b. Press [ENTER].
 - c. Press [▶] to select RECEIVE.
 - d. Press [ENTER].
5. Press TRANSFER on the CBL 2. The CBL 2 detects the type of handheld device connected and sends the specified version of the DataMate App.

Note: The DataMate App controls the CBL 2 and its data collection.

6. Plug in the stainless steel temperature sensor to CBL2 channel 1 (CH1).
7. Run the DataMate App.
 - a. Press [APPS].
 - b. Press [▼] or [▲] to select DATAMATE, and then press [ENTER].

The DataMate App automatically identifies the Stainless Steel Temperature sensor, loads its calibration factors, and displays the name of the sensor and temperature in degrees C. DataMate also loads a default temperature experiment.

8. To start collecting data with the default experiment, hold the temperature sensor in your hand and press **2:START**.

9. A real-time graph measuring temperature appears. After about 30 seconds, press **STO▶** to stop collecting data.

You just successfully collected and plotted data.

For other DataMate options (including other sensors, analysis, and data saving), see *Getting Started With the CBL 2*, or visit:

education.ti.com/guides

Free Manuals Download Website

<http://myh66.com>

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<http://www.somanuals.com>

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