

TI-83 Plus LearningCheck™ App

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What is the LearningCheck App?

The LearningCheck™ App for the TI-83 Plus lets you:

- view assignments, including text and images.
- record answers to assignments on your TI-83 Plus.
- create and use electronic response forms.

Educators can also use the LearningCheck App to assess student work; students can use the LearningCheck App for self-assessment.

The LearningCheck App can be used as a standalone App on a TI-83 Plus or with the TI-Navigator™ classroom network (version 1.0 or higher).

What You Need

Note In this guidebook, any information that pertains to the TI-83 Plus also pertains to the TI-83 Plus Silver Edition, unless otherwise noted.

Hardware and software	Notes
TI-83 Plus or TI-83 Plus Silver Edition with version 1.16 or later of the operating system software	You can download a free copy of the latest operating system software from education.ti.com/latest .
Computer with Microsoft® Windows® 98/2000, Windows NT®, or Apple® Macintosh® OS 7.1 or higher installed	
TI-GRAPH LINK™ computer-to-device cable	TI-GRAPH LINK cables are available for purchase from retail stores, online retailers, and instructional dealers. See a list at education.ti.com/buy . You may also purchase TI-GRAPH LINK cables from the TI online store at education.ti.com/shop .
TI Connect™ software, which works with most supported models of Flash-based TI graphing devices	You can download free copies of TI Connect software from education.ti.com/downloadticonnect .

Where to Find Installation Instructions

Detailed instructions on installing this and other applications are available at education.ti.com/guides. Follow the link to Flash Installation Instructions.

Getting Help

The LearningCheck™ App has built-in help for each type of question. With a question displayed, select **MENU** and then select **HELP** to display a help screen.

The instructions in this guidebook are only for this application. If you need help using the TI-83 Plus, refer to its comprehensive guidebook at education.ti.com/guides.

Starting and Quitting the Application

Starting the Application

1. Press **[APPS]** to display the list of applications on your TI-83 Plus.
2. Select **LearnChk**. The application's information screen is displayed.
3. Press any key to continue. The ASSIGNMENT LIST screen is displayed.

Quitting the Application

From the ASSIGNMENT LIST screen, select **MENU** (press **[Y=]**) and then select **EXIT APP**, or press **[2nd]** **[QUIT]**.

Navigating

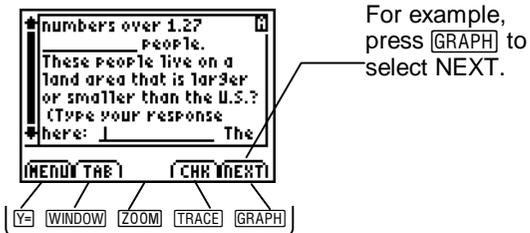
Selecting Menu Items

You can select menu items in the following ways.

- Press \downarrow or \uparrow to highlight the menu item, and then press $\boxed{\text{ENTER}}$ to select it.
- Press the number key that corresponds to the menu item.

Using On-Screen Options

Each screen displays one or more options along the bottom of the screen. To select an option, press the graphing key directly below the option.



Using the TI Keyboard

To do this ...

Select menu items

Use the up and down arrow keys to highlight a menu item, and then press Enter to select it.

—or—

If the menu item is numbered, type the number that corresponds to it.

Quit the application

Q

Select on-screen options

plus the number that corresponds to the graphing key directly below the option:

1 = Y=

2 = WINDOW

3 = ZOOM

4 = TRACE

5 = GRAPH

You can also press the Tab key on the keyboard to select the **TAB** on-screen option.

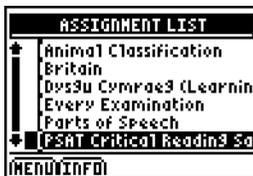
Distributing Assignments to a TI-83 Plus

- Use TI Connect™ software and a TI-GRAPH LINK™ cable to distribute assignments from a computer to a TI-83 Plus.
- Use a TI-GRAPH LINK unit-to-unit cable to distribute assignments from one TI-83 Plus to another.
- Use the TI-Navigator™ classroom network (version 1.0 or higher) to distribute assignments to all devices that are connected to the wireless hubs.

Completing an Assignment

Overview

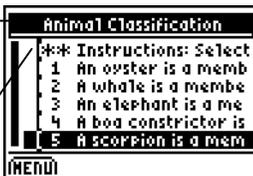
When you [start](#) the LearningCheck™ App, the ASSIGNMENT LIST screen displays the titles of the assignments, in alphabetical order, that are currently installed on the TI-83 Plus.



After you select an assignment and enter your user information, the Item List displays the title of each item in the assignment. You select the first item in the list, and then navigate through the assignment, answering questions or reading explanatory items, as required by the instructions.

Assignment title

Explanatory items—
instructions, for
example—are
not numbered.



Questions are
numbered
sequentially.

An answer file is automatically created for each assignment and is associated with your username. Your responses to items in the assignment are stored in this application variable (AppVar) file. The AppVar name is the same as the assignment AppVar name, except that it begins with the letter U.

Example: Your assignment, Real Numbers and Operations, has the file name REALNUM.8xk. The answer file name is UREALNUM.8xk.

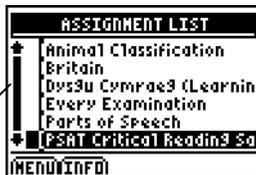
Note

- Another AppVar, NavPlay, is created when you complete an assignment. NavPlay stores information about your progress through the assignment so that you can exit the assignment and then return to the same location within the assignment the next time you access it.
- If you delete NavPlay, this information is lost, and you will return to the beginning of the assignment the next time you access it. Deleting NavPlay does not affect the answer file.

Opening and Navigating through an Assignment

1. [Start](#) the LearningCheck™ App. The ASSIGNMENT LIST screen displays the titles of the assignments that are currently installed on the TI-83 Plus.

Press  or  to scroll through the list of assignments.



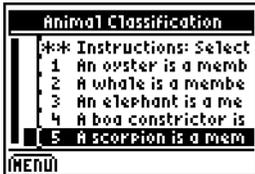
Tip

Select **INFO** on the ASSIGNMENT LIST screen to display information about the assignment, such as the AppVar name (*.8xv), number of items, and any other info that the assignment creator supplied.

2. Move the cursor to an assignment and press . The ASSIGNMENT SIGN IN dialog box is displayed.



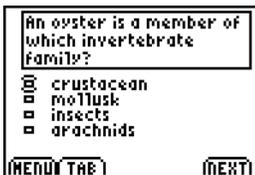
3. Type your username and then press **[ENTER]** to display the Item List screen for the assignment.



Note

- The username can be 3 – 32 characters long, and can only contain letters, numbers, and spaces.
- Entering a username is like writing your name on your assignment. Be sure to remember your username so that you can return to your assignment later, if necessary.

4. Move the cursor to the first item that you want to view, and then press **[ENTER]**.



5. Answer the question or read the explanatory item. See the following section for detailed instructions on how to answer various types of questions.

Tip

- Selecting **NEXT** to skip a question. You can return to it later.
- Press **2nd** and select **NEXT** to go to the previous question.

6. Use the following options to continue navigating through the assignment.
 - To display the next item, select **NEXT**, or press **2nd** **▶**.
 - To [check your answer](#), select **CHK**. This option may not be available, depending on the purpose of the assignment. The **CHK** option is not available on [response forms](#).
 - To display the previous item, select **MENU** and then select **PREVIOUS ITEM**, or press **2nd** **◀**.
 - To return to the Item List screen, select **MENU** and then select **ITEM LIST**, or press **2nd** **MODE**.
 - To get help on how to navigate within a question, select **MENU** and then select **HELP**.
 - To [pause](#) the application, select **MENU** and then select **PAUSE APP**.

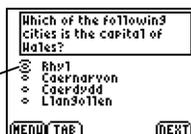
- To return to the ASSIGNMENT LIST screen, select **MENU** and then select **ASSIGNMENT LIST**.

When you have reached the end of the assignment, the Item List screen is displayed.

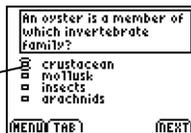
Answering Multiple-Choice Questions

Response choices for multiple-choice questions are displayed either in a list following the question or on an image. Some multiple-choice questions allow you to select only one response option; others allow you to select more than one.

Option buttons indicate that you can only select one response option.



Check boxes indicate that you can select more than one response option.



- Select **TAB** to move the cursor to a response option, and then press **ENTER** to select it.

Tip

When the response options are on an image:

- Select **PIC** or **TXT** to toggle between the image (PIC) and the question text (TXT).
 - Select **TAB** to move the cursor from one response option to another.
 - Press **2nd** and then select **TAB** to move the cursor backwards through the response options.
- To deselect a response option, move the cursor to the selected response, and then press **ENTER**.

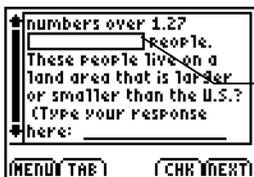
Tip

If only one response choice is allowed, you can simply select another response option to change your answer; you do not have to deselect the current response choice.

Answering Fill-in-the-Blank Questions

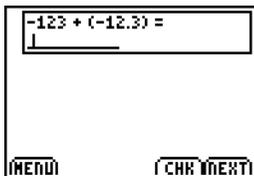
Some fill-in-the-blank questions require you to type an answer. Others require you to choose an answer from a drop-down list of choices.

1. If necessary, select **TAB** to move the cursor to the blank that you want to complete.



A boxed blank shows where the cursor is.

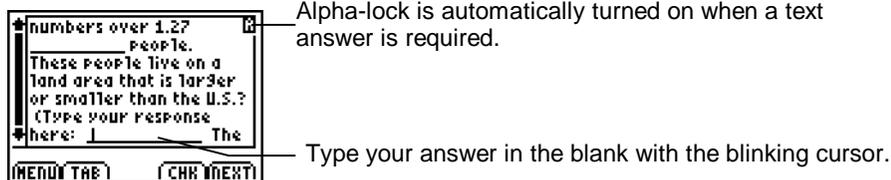
2. Press **ENTER** to select the blank. A blinking cursor appears at the beginning of the selected blank.



3. Type your answer or select an answer from the drop-down list.

Tip Press **CLEAR** to clear the answer field.

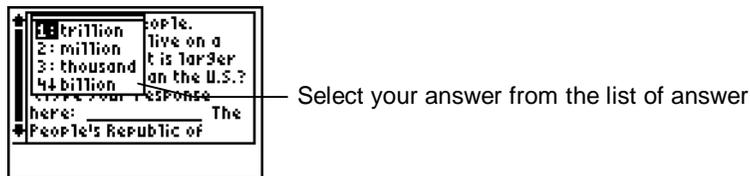
Text answer required:



Alpha-lock is automatically turned on when a text answer is required.

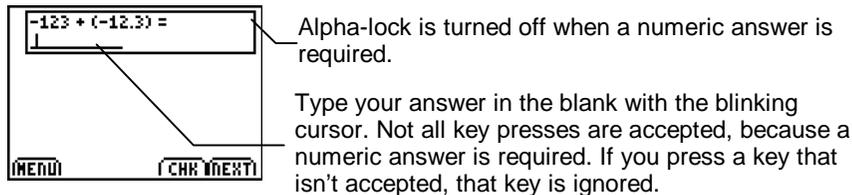
Type your answer in the blank with the blinking cursor.

Selection from the drop-down list required:



Select your answer from the list of answer

Numeric answer required:



Alpha-lock is turned off when a numeric answer is required.

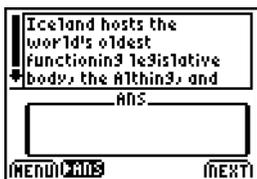
Type your answer in the blank with the blinking cursor. Not all key presses are accepted, because a numeric answer is required. If you press a key that isn't accepted, that key is ignored.

Answering Open-Response Questions

Open-response questions are followed by a large field in which you type your answer. The length of your answer is limited only by the amount of available memory in the TI-83 Plus.

When the characters you type reach the end of a line, they wrap to the next line. As you reach the bottom of the field, previous lines scroll off the top of the field.

1. Press \uparrow or \downarrow to scroll through the question text.



2. Select \blacktriangleright **ANS** to move the cursor to the answer field, and then type your answer.



- Press \uparrow or \downarrow to scroll through your answer text.

- To clear your entire answer, press **CLEAR** and then select **YES**.
- Select **▶Q** to move the cursor back to the question field.

Tip

To start a new paragraph in an open-response field, you must enter spaces until the cursor reaches the beginning of the next line. On the TI Keyboard, you can press the tab key to enter two spaces at a time.

Inserting Symbols, Commands, and Special Characters

Symbols and commands that are available on the TI-83 Plus, as well as special characters, can be inserted in any field that accepts text entries. (You cannot insert symbols, commands, or special characters in a fill-in-the-blank field that requires a numeric answer, for example.) You insert them into the field the same way you would insert them on the TI-83 Plus home screen. Some examples include the following.

- Symbols that are second functions of the TI-83 Plus keys (e.g., π)
- Commands that are accessed from the MATH menu (e.g., **abs(** and **angle()**).
- Symbols and commands that are accessed from the CATALOG (e.g., \neq and **augment()**).

You can also insert special characters such as accented or Greek characters.

1. Select **MENU** and then select **SPECIAL CHARACTERS** to display the character palette.



2. Use the arrow keys to move the cursor to a character that you want to insert, and then press **ENTER**. The character is pasted in the area below the palette.



3. Insert other characters, as necessary, and then select **DONE**.
The characters are pasted into the answer field.



Some accented vowels are not in the character palette. However, you can create these characters.

1. Select one of the accent marks at the bottom of the screen.



Sequencing Items in a List

Some questions require you to arrange a list of items so they are in the correct sequence or rank.



1. Select **▶ANS** to move the cursor to the answer field. The first item in the list is enclosed in brackets.



2. If necessary, use and to move the cursor to the item that you want to move.



3. Press **ENTER** to select the item. The item is highlighted.



4. Use **▲** and **▼** to move the item to a new location in the list.



"Greece" was moved from the fourth position to the second position in the list.

5. Press **ENTER** to place the item.

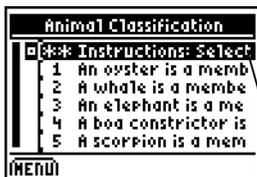


"Greece" is now repositioned and deselected.

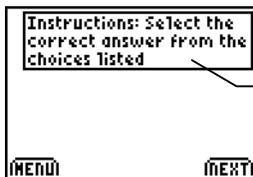
6. Repeat steps 2 through 5 until the items are in the desired sequence.

Viewing Comments or Instructions

Assignments can include explanatory items such as test instructions, section separators, and hints.



Explanatory items are not numbered.



Explanatory items do not provide an area for an answer.

Clearing All Answers

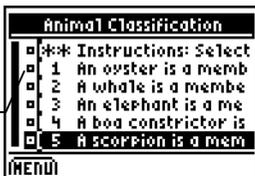
You can clear all answers on an assignment to prepare it for another session.

1. From the Item List screen, select **MENU** and then select **CLEAR ALL ANSWERS**. A confirmation dialog box displays.

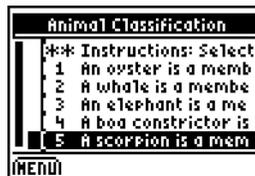


2. Press **[ENTER]** to clear all answers. The answers are cleared and the answered symbol is removed from the Item List screen.

This symbol indicates that the question has been answered or the explanatory item has been viewed.



Before clearing answers



After clearing answers

Checking Answers

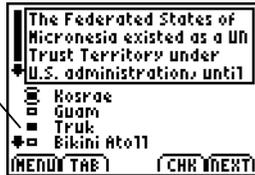
Some assignments allow you to check your answers as you complete the assignment. However, even if the assignment allows you to check answers, it may contain items that cannot be electronically evaluated, such as open-response questions. If the **CHK** option is available, you can check the answer for that question.

After you answer a question, select **CHK** (with the question still displayed). The next screen displayed shows whether your answer was correct or incorrect. If your answer is incorrect, you can choose whether you want to view the correct answer, or try again to answer it correctly. There is no limit to the number of times that you can attempt to answer the question.



If your answer is incorrect, and you opt to view the correct answer, the question is redisplayed, with the correct answer(s) indicated.

The correct answers, Kosrae and Bikini Atoll are indicated.



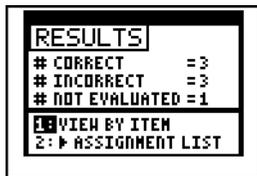
Note

After you display the correct answer(s), your answer file is overwritten. There is no longer any record of your previous answer.

Viewing Results

If the assignment allows you to check your answers, you can view the number of correct and incorrect responses that you gave the last time you completed the assignment. Also noted is the number of questions that could not be electronically evaluated.

From the Item List screen, select **MENU**, and then select **VIEW RESULTS**. The RESULTS screen shows how well you performed. You can also view results by item.



Item that could not be electronically evaluated

Items that were correctly answered

Item that was incorrectly answered or that was not answered



Creating, Changing, and Renaming Response Forms

Creating Response Forms

Response Forms are answer sheets that students use to record answers for non-electronic assignments. For example, an instructor may read questions aloud or distribute questions on paper, and then collect the responses from the students' TI-83 Plus units.

A response form can contain multiple-choice responses (check-box type only), free responses, or a combination of both.

Note ■ You cannot check answers on a response form. ■

1. From the ASSIGNMENT LIST screen, select **MENU**, and then select **RESPONSE FORM**. The RESPONSE FORM BUILDER screen is displayed.
2. Select **NEW** to display the NEW RESPONSE FORM screen.

3. Type a file name and then press **[ENTER]**. The file name is the name of the Application Variable (AppVar) that is shown on the APPVARS screen.

Note

AppVar names

- can be one to seven characters long and can consist of both letters and numbers.
- cannot begin with a number, contain spaces, or be the same as a file name that already exists.



A screenshot of a terminal window titled "NEW RESPONSE FORM". The screen displays the text "PLEASE ENTER A FILENAME" above a single-line input field. Below the input field is a "BACK" button.

4. Type an assignment title, and then press **[ENTER]** to display the ADD TO / MODIFY FORM screen.

Note

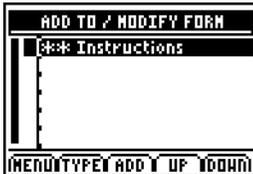
The assignment title that you enter is the assignment name that is displayed on the ASSIGNMENT LIST screen.



A screenshot of a terminal window titled "NEW RESPONSE FORM". The screen displays the text "PLEASE ENTER A TITLE" above a single-line input field. The input field contains the text "AM HIST QUIZ 3_". Below the input field is a "BACK" button.

Titles can be up to 24 characters long and can contain letters, numbers, symbols, and spaces.

5. Select **ADD** and then select either **MULTIPLE CHOICE** or **FREE RESPONSE**.



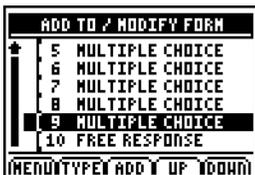
6. Type the number of multiple-choice or free-response items that you want to include in this assignment and then press **ENTER**.



Note

- You can add up to 99 items at one time into the response form.
- The total number of items a response form can contain depends on the available memory on the TI-83 Plus.

- Repeat steps 5 and 6 until you have added all of the items to the assignment.



Note

- To move an item up or down in the list, press or to highlight the item and then select **UP** or **DOWN** until the item is in the correct place.
- To delete an item, place the cursor on the item, press , and then select **CONTINUE** to delete the item.
- To change the item type (e.g., from multiple-choice to free response), place the cursor on the item and select **TYPE**.

- Select **MENU** and then select **ASSIGNMENT LIST** to return to the ASSIGNMENT LIST screen.

Changing a Response Form

- From the Assignment List screen, select **MENU** and then select **RESPONSE FORM** to display the RESPONSE FORM BUILDER screen.

2. Select **EDIT**. The ASSIGNMENT SIGN IN screen is displayed.

Note

- If you have entered one or more responses to items in this response form, you must enter your username before you can edit the response form.
- If the username that you enter and the one stored in the answer file do not match, any responses that were entered will be lost when you edit the response form.

3. If necessary, enter your [username](#), and then press **[ENTER]** to display the ADD TO /MODIFY FORM screen. A list of response forms is displayed.

4. Add, delete, or move items on the response form.

- Select **ADD** to [add items](#).
- Press **[DEL]** with an item highlighted to delete an item.
- Select **UP** or **DOWN** with an item highlighted to move an item.

5. Select **MENU** and then select **ASSIGNMENT LIST** to return to the ASSIGNMENT LIST screen.

Renaming a Response Form

Renaming the response form changes the AppVar file name. It does not change the title of the response form as it is displayed on the ASSIGNMENT LIST screen. The name of the associated answer file is automatically changed to match the file name of the response form.

You might want to rename a response form if, for example, you mistyped the name that was provided by the teacher. If the teacher is using TI Navigator, your response form must be named correctly in order for it to be collected.

To change the file name of the response form AppVar:

1. On the Assignment List screen, highlight a response form assignment.
2. Select **MENU** and then select **RESPONSE FORM** to display the RESPONSE FORM BUILDER screen.
3. Select **MENU** and then select **RENAME FORM** to display the RENAME RESPONSE FORM screen.
4. Type a filename, and then press **ENTER** to save the response form with the new name.

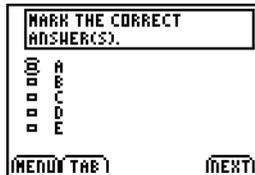
To verify that the file name has been changed:

1. From the RESPONSE FORM BUILDER screen, highlight the assignment and select **INFO**. The file name and number of questions are displayed.
2. Select **BACK** to return to the RESPONSE FORM BUILDER screen.

Using Response Forms

Answering Questions

Multiple-choice items contain five check box options labeled A, B, C, D, and E. More than one correct answer is allowed. For single response questions, such as True / False, you could use **A** for True and **B** for False.

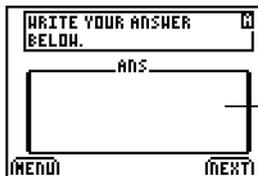


A screenshot of a TI-83 Plus LearningCheck App response form. The form is enclosed in a rectangular border. At the top, a smaller box contains the text "MARK THE CORRECT ANSWER(S)". Below this, there are five vertically stacked options, each consisting of a small square checkbox followed by a letter: A, B, C, D, and E. At the bottom of the form, there are two buttons labeled "MENU" and "NEXT" with a vertical line to the right of each label.

Tip

Since more than one correct answer is allowed, make sure that you only select one choice for single response questions.

Open-response items contain an area where a short answer can be typed. The length of the answer is limited only by the amount of available memory on the TI-83 Plus. Answering free-response items on a response form is exactly the same as on any other assignment. See [Answering Open-Response Questions](#) for more details.



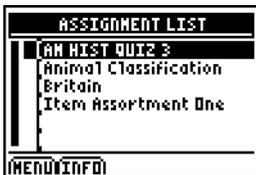
Characters wrap to the next line when they reach the end of a line.

As you reach the bottom of the screen, previous lines scroll up.

You can use characters from the special characters palette (**MENU > SPECIAL CHARACTERS**) and the commands and symbols in the CATALOG (**[2nd][CATALOG]**).

To use a response form:

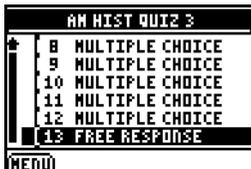
1. [Start](#) the LearningCheck™ App. The ASSIGNMENT LIST screen shows the titles of assignments that are currently installed on the TI-83 Plus.



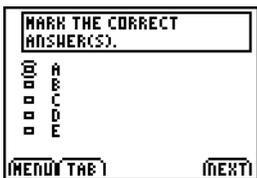
2. Move the cursor to an assignment and press **[ENTER]**. The ASSIGNMENT SIGN IN dialog box is displayed.



3. Type your [username](#) and then press **ENTER** to display the Item List screen for the assignment.



4. Move the cursor to the first item, and then press **ENTER** to view it.



Multiple-choice item



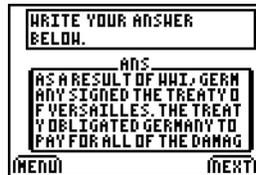
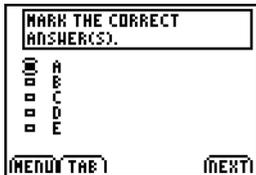
Free-response item

5. Do one of the following:

- Select **TAB** to move the cursor to a multiple-choice check box and press **ENTER** to select it. (Select more than one check box, if necessary.)

—or—

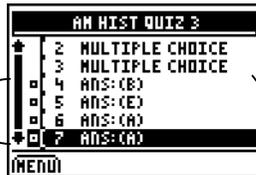
- Type your answer in the free response area.



6. Select **NEXT** to go to the next item in the assignment.

7. Repeat steps 4 - 6 until all questions are answered.

These questions have been answered.



You can skip a response and come back to it later.

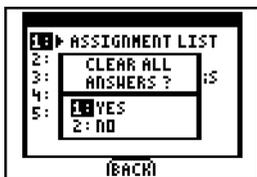
When the last item is displayed and you select **NEXT**, the Item List screen is displayed.

The questions that you have answered are marked with the symbol.

Clearing All Answers from a Response Form

You can clear a response form and reused it for another set of questions.

1. From the Item List screen, select **MENU** and then select **CLEAR ALL ANSWERS**. The Clear confirmation message is displayed.



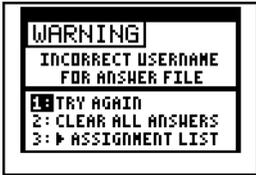
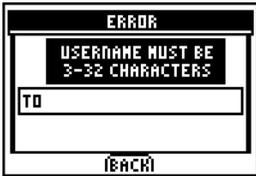
2. Press **ENTER** to clear all answers from the assignment.

Pausing the LearningCheck App

You can pause the LearningCheck™ App so that you can display and use the home screen, another App, or any other functionality of the device.

1. From the Item List screen or while a question or response form item is displayed, select **MENU** and then select **PAUSE APP** to display the home screen.
2. To return to the App, press **[APPS]**, select **LearnChk**, and then press **[ENTER]**.
3. Type your [username](#) and press **[ENTER]**. The App resumes and automatically returns to the screen that was displayed when you paused the App.

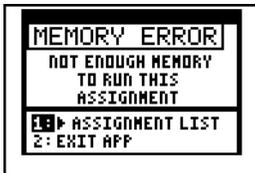
Error Messages

Error Message	Description
 A screenshot of a TI-83 Plus calculator screen displaying an error message. The text reads: "OLD OS", "YOU MUST UPDATE YOUR OS IN ORDER TO RUN THIS APP", and "EXIT APP" with a cursor on the left.	The operating system (OS) software on your TI-83 Plus is older than version 1.16. You must update the OS to at least version 1.16 in order to run the LearningCheck™ App. You can download a free copy of the latest OS from education.ti.com/latest .
 A screenshot of a TI-83 Plus calculator screen displaying a warning message. The text reads: "WARNING", "INCORRECT USERNAME FOR ANSWER FILE", "TRY AGAIN", "CLEAR ALL ANSWERS", and "ASSIGNMENT LIST" with a cursor on the left.	The username that you entered does not match one that was used for an existing answer file. <ul style="list-style-type: none">• Select TRY AGAIN to correct the username you entered.• Select CLEAR ALL ANSWERS to set up a new answer file and use the username that you entered. The old answer file is deleted.• Select ASSIGNMENT LIST to return to the ASSIGNMENT LIST screen.
 A screenshot of a TI-83 Plus calculator screen displaying an error message. The text reads: "ERROR", "USERNAME MUST BE 3-32 CHARACTERS", and "TO" with a cursor on the left. A "(BACK)" option is visible at the bottom.	Enter a username that contains at least three characters, but not more than 32 characters.

Error Message**Description**



Your TI-83 Plus has enough available RAM to run the LearningCheck™ App, but you may not be able to complete your assignment. You can exit that App and delete or archive files to create more available RAM on your TI-83 Plus.



Your TI-83 Plus does not have enough available memory to continue to run the assignment. You must exit the App and delete or archive some files to create more available memory on your TI-83 Plus.



Your TI-83 Plus does not have enough available RAM to archive the answer file for your assignment. Answer files are automatically saved in archived memory. Saving them in archived memory requires a certain amount of RAM. You must exit the App and delete or archive some files to create more available RAM on your TI-83 Plus.



Your TI-83 Plus does not have enough available RAM to run the LearningCheck™ App. You must exit the App and delete or archive some files to create more available RAM on your TI-83 Plus.

Error Message

Description



The file name that you entered for the response form already exists, or the corresponding answer file for the response form already exists.

- Select **DELETE EXISTING** to overwrite the existing file.
- Select **ENTER A NEW NAME** to enter a new file name.



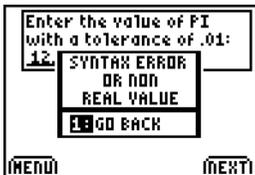
Your TI-83 Plus does not have enough RAM to save the changes that you made to your response form. You must delete or archive some files to create more available RAM on your TI-83 Plus.



You have attempted to change the item type of an item on a response form. If you change the item type (for example, from multiple choice to free response), any answer that you have given for the question will be deleted.

- Select **CONTINUE** to change the item type and delete any answer associated with the item.
- Select **LEAVE AS IS** to leave the item type unchanged.

Error Message**Description**



You entered a response for a fill-in-the-blank question that requires a numeric response that is not a real numeric value. Select **GO BACK** and change your response.

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