
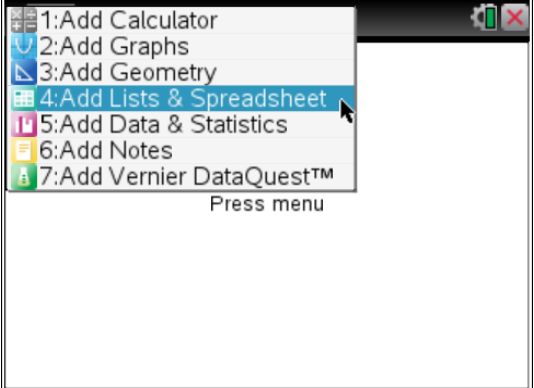


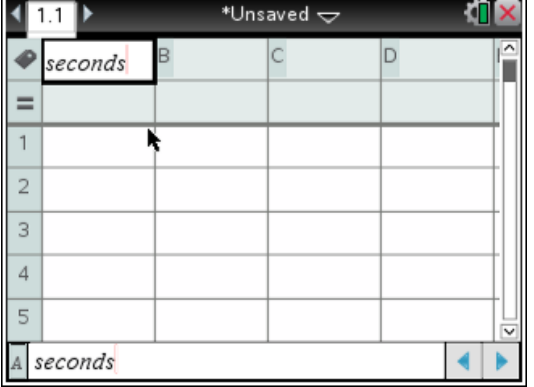

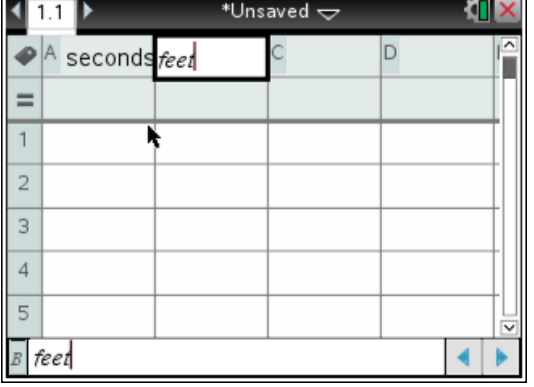


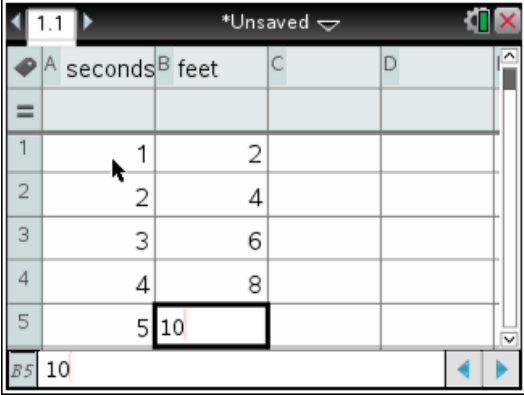
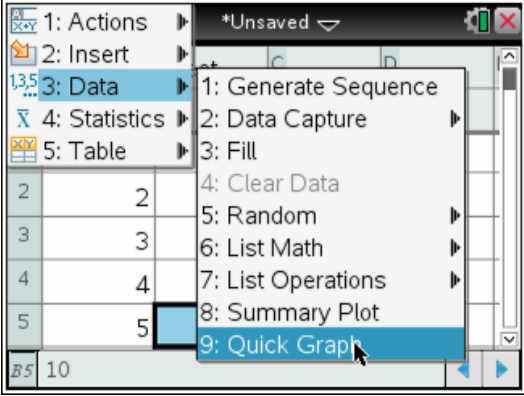
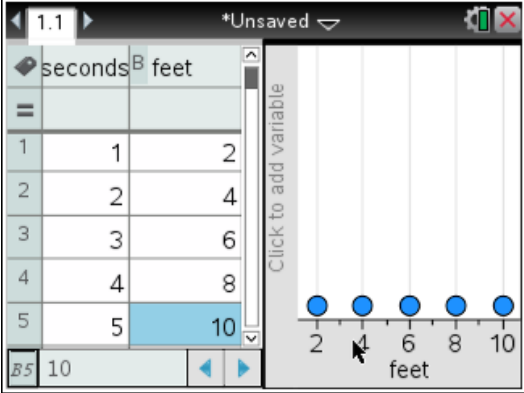
# Graphing a Scatterplot

## Tutorial Overview

In this tutorial, you will learn how to graph a scatterplot using the TI-Nspire™ CX.



Actions	Screens
<p><b>Step 1:</b> Press  and select <b>1: New Document</b> to begin a new document. Choose <b>4: Add Lists &amp; Spreadsheet</b>.</p>	 <p>A screenshot of the TI-Nspire menu. The menu items are: 1: Add Calculator, 2: Add Graphs, 3: Add Geometry, 4: Add Lists &amp; Spreadsheet (highlighted), 5: Add Data &amp; Statistics, 6: Add Notes, and 7: Add Vernier DataQuest™. Below the menu, it says 'Press menu'.</p>
<p><b>Step 2:</b> In column A, press  on the Touchpad to move to the cell at the top of column A. Click in the cell at the top of column A. Type the list name <b>seconds</b> next to the letter A, and press .</p>	 <p>A screenshot of the TI-Nspire spreadsheet. The spreadsheet has columns A, B, C, and D, and rows 1 through 5. The cell A1 contains the text 'seconds'. The status bar at the bottom shows 'A seconds'.</p>
<p><b>Step 3:</b> Move to the cell at the top of column B, enter the list name <b>feet</b>, and press .</p>	 <p>A screenshot of the TI-Nspire spreadsheet. The spreadsheet has columns A, B, C, and D, and rows 1 through 5. The cell A1 contains 'seconds' and the cell B1 contains 'feet'. The status bar at the bottom shows 'B feet'.</p>

# Graphing a Scatterplot

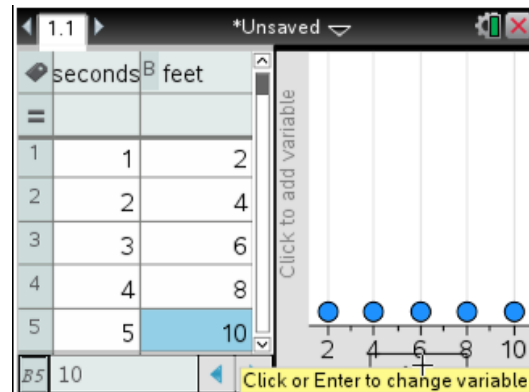
Actions	Screens
<p><b>Step 4:</b> Enter data as shown in the two lists. Place the cursor in cell A1 to start entering data in column A or in cell B1 to start entering data in column B.</p> <p><b>Note:</b> Pressing <b>enter</b> or <b>▼</b> will move the cursor to the next cell.</p>	
<p><b>Step 5:</b> To create a plot on the same page, put the cursor anywhere in column A or B and press <b>menu</b> and select <b>3: Data, 9: Quick Graph</b>.</p>	
<p><b>Step 6:</b> The screen will automatically split and a dot plot appears.</p> <p><b>Note:</b> The dark rectangle around the Data &amp; Statistics application work area indicates that the application is active. To move from one side of the screen to the other, press <b>ctrl</b> <b>tab</b>.</p>	



# Graphing a Scatterplot

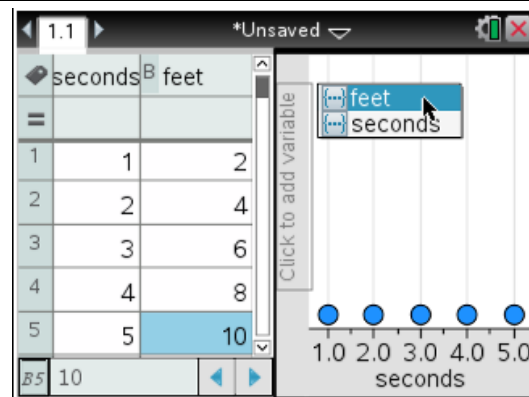
## Actions

**Step 7:** To change the dot plot to a scatterplot, move the cursor over the horizontal axis label. The message “**Click or Enter to change variable**” will appear. Press  or **enter** to display the variables (the names of our columns in the spreadsheet). Press  or **enter** to select the variable **seconds**. A dot plot of the **seconds** data appears.

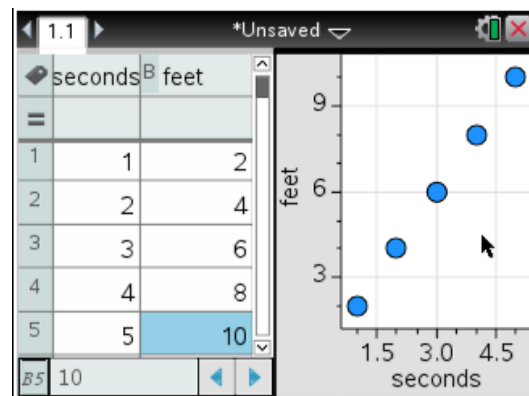
## Screens



**Step 8:** Move the cursor to the middle of the left side of the graph screen. The message “**Click or Enter to change variable**” will appear. Press  or **enter** to display the variables. Highlight the variable **feet**. Press  or **enter** to select the variable **feet**.



**Note:** If both lists had been selected before the Quick Graph tool was selected, a scatterplot would have been graphed instead of a dot plot.



## Graphing a Scatterplot

### Actions

**Step 9:** To create a scatterplot on a separate page, we must first delete the Quick Graph we created on this page. Click in the Data & Statistics application work area on the right side of the page. Press **ctrl** **K** to select the application. The bold outline around that application will flash. Press **del** to delete the plot.

### Screens

	A seconds	B feet	C	D
1	1	2		
2	2	4		
3	3	6		
4	4	8		
5	5	10		
6				

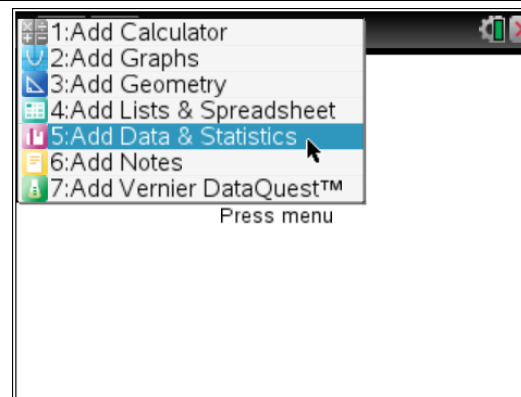
B5 10

	A seconds	B feet	C	D
1	1	2		
2	2	4		
3	3	6		
4	4	8		
5	5	10		
6				

B5 10

**Step 10:** After entering data in a Lists & Spreadsheet page, press **ctrl** **docv** to add a new page to the document. Select **5: Add Data & Statistics**.

**Note:** When the Data & Statistics page is added, the list name that appears next to the word "Caption" is the first list name, alphabetically, in the spreadsheet.



# Graphing a Scatterplot

## Actions

**Step 11:** To choose the horizontal and vertical variables see **Step 7 & Step 8**.

## Screens

