

Getting Started with TI InterActive™

TI InterActive™ is a complete mathematics software program that incorporates the following features:

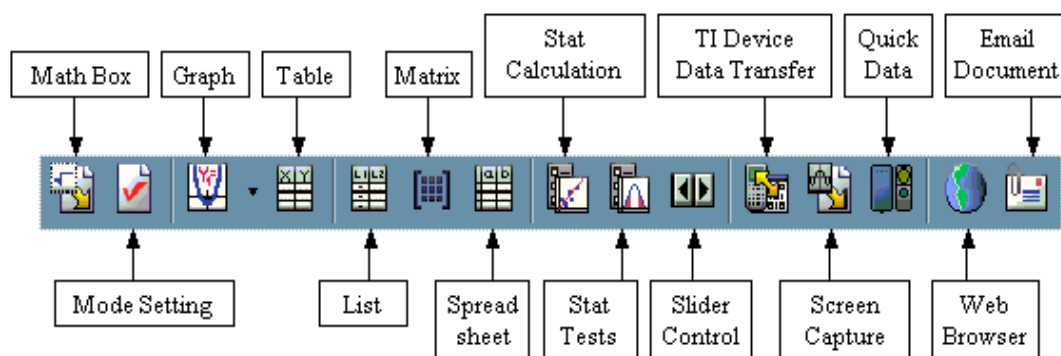
- Word processor with integrated maths system
- TI graphing calculator functionality
- Symbolic Computer Algebra System
- Integrated Web Browser
- Data editor with spreadsheet
- Graphing Technology Connectivity

To get familiar with these features, start a new worksheet:

Open TI InterActive.

The TI InterActive toolbar has the following buttons:

The Toolbar



Create a sample lesson using these tools.

Type in a heading such as “**Maths Demo** **TI InterActive Features**”.

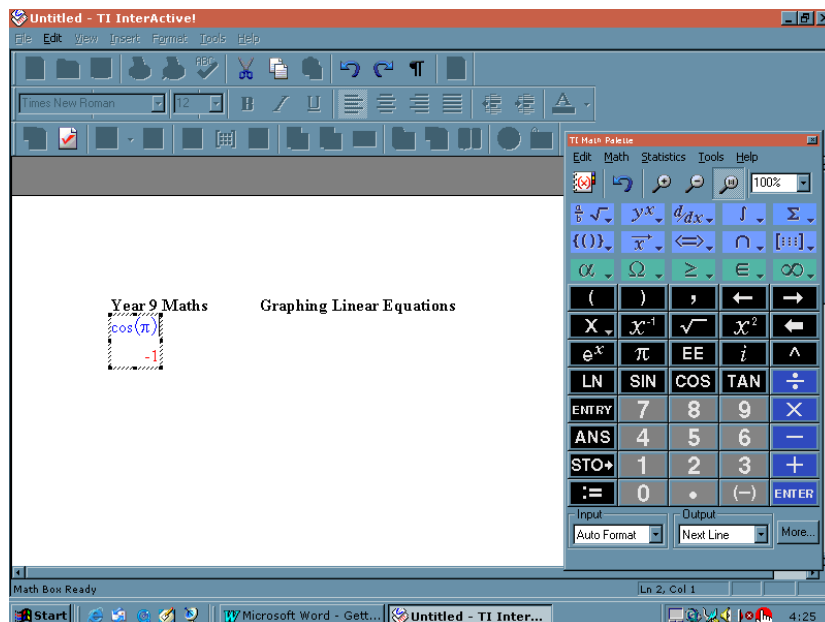
Math Box

Click on the **Math Box** button.





Move the **Math Box** to the right of the screen.
Click on the buttons to calculate $\cos(\pi)$ with the result -1 .

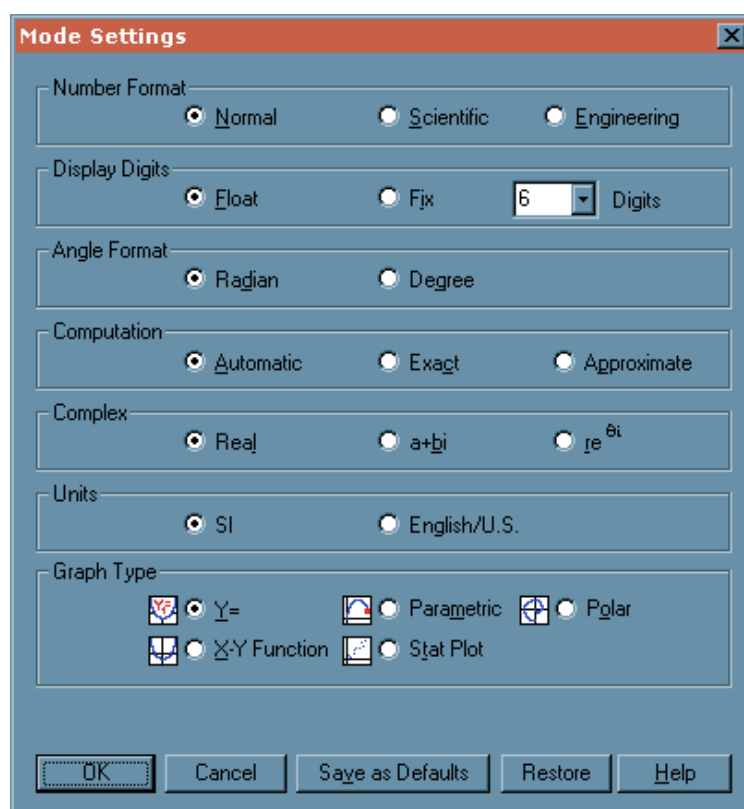


Mode Setting

Click on the **Mode Setting** button.

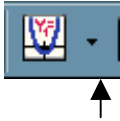


Leave the default settings as shown below:



Graph

Click on the **Graph** button.



(Note – Clicking on the small arrow to the right of the **Graph** button displays a drop down menu of different graph styles)

In the box next to **y1(x) :=** type **4cos(x)** and press **Enter**.

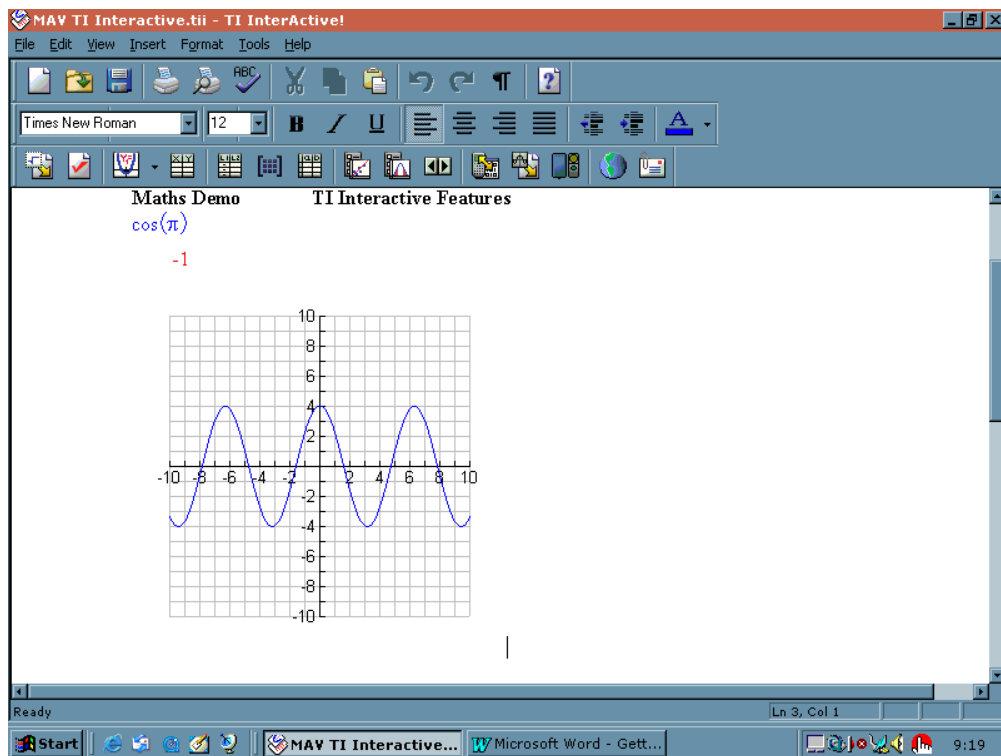
Save to Document

Save to Document



Click on the **Save to Document** button to insert the graph onto the document (see previous diagram).

The document should now look like this:

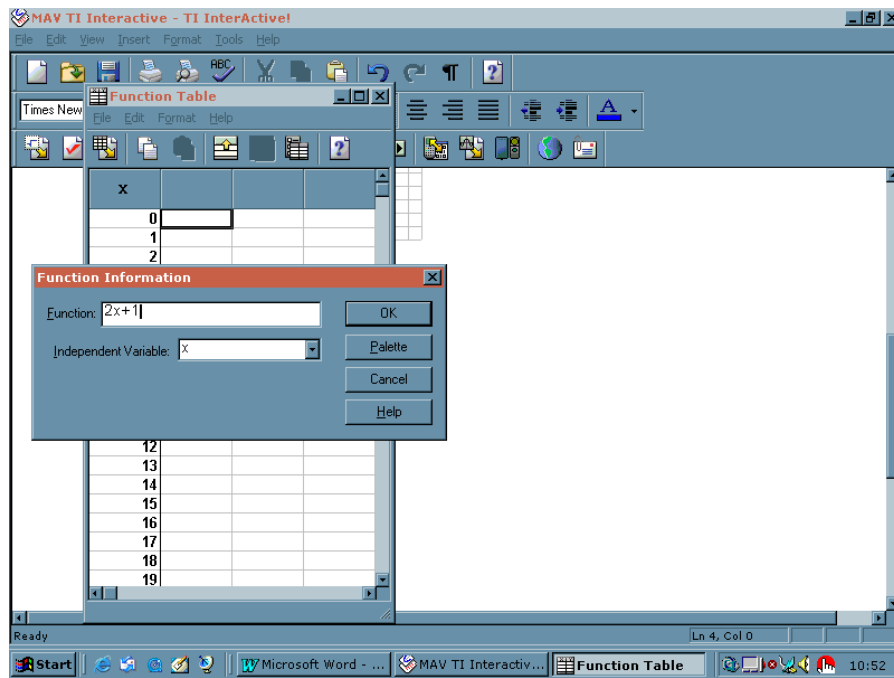


Table

Click on the **Table** button.



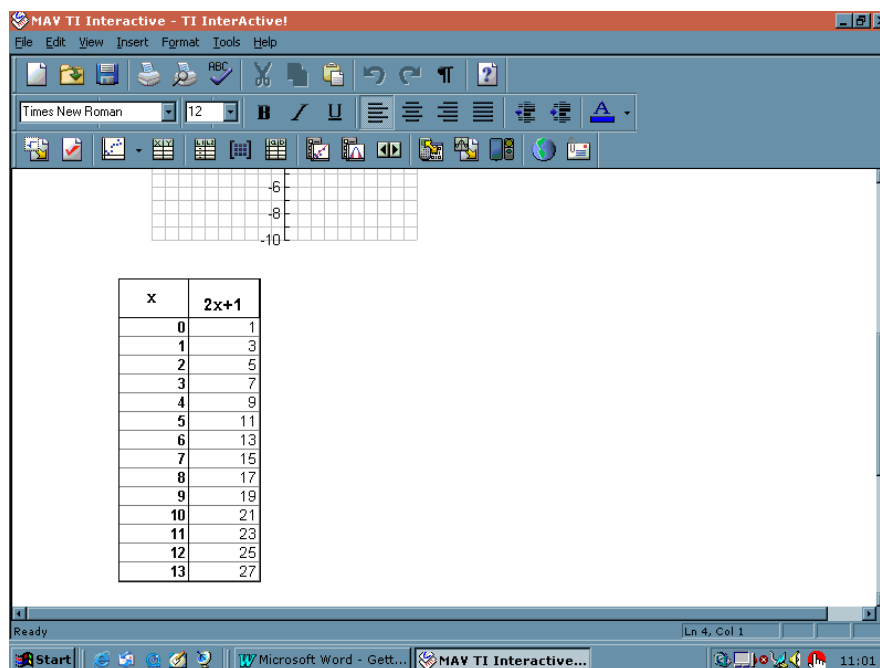
In the **Function Information** dialogue box, enter the expression $2x + 1$. Press **Enter** or click on **OK**.



Click on the **Save to Document** button.



Your document should now look like this:



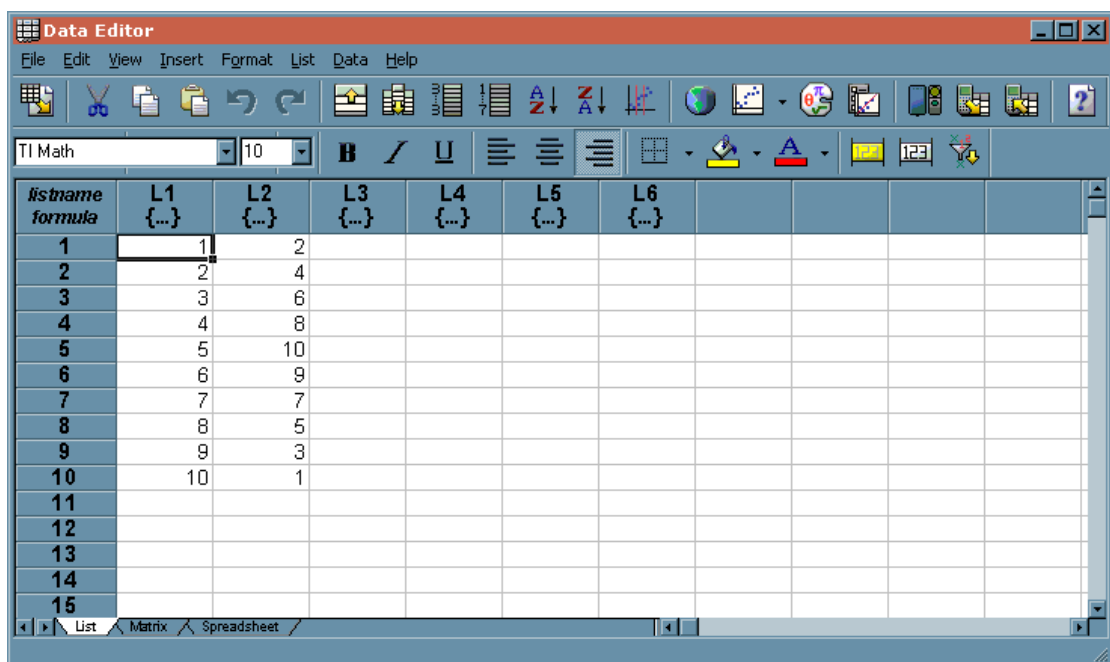
In a similar way, create a **List**, a **Matrix** and a **Spreadsheet**, saving to document each time.

List

Click on the **List** button.



Enter the following data into **L1** and **L2**:

A screenshot of the TI Math Data Editor window. The window title is "Data Editor". The menu bar includes File, Edit, View, Insert, Format, List, Data, and Help. The toolbar contains various icons for editing and formatting. The main area is a table with columns labeled L1, L2, L3, L4, L5, and L6. The data entered is as follows:

#/name formula	L1 {...}	L2 {...}	L3 {...}	L4 {...}	L5 {...}	L6 {...}
1	1	2				
2	2	4				
3	3	6				
4	4	8				
5	5	10				
6	6	9				
7	7	7				
8	8	5				
9	9	3				
10	10	1				
11						
12						
13						
14						
15						

Click on the **Save to Document** button.

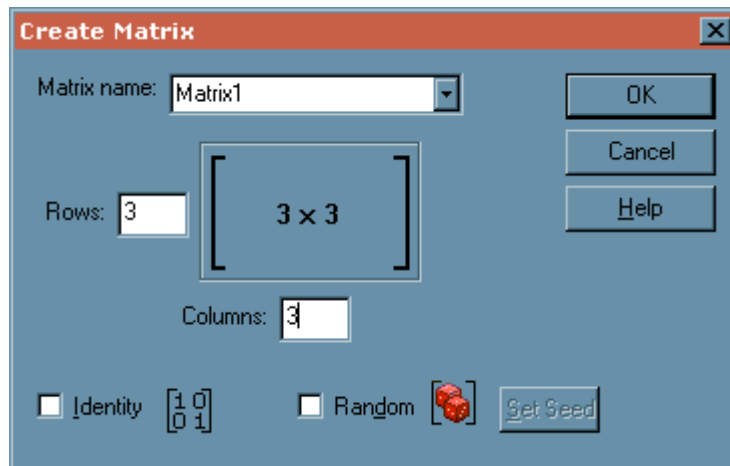


Matrix

Click on the **Matrix** button.

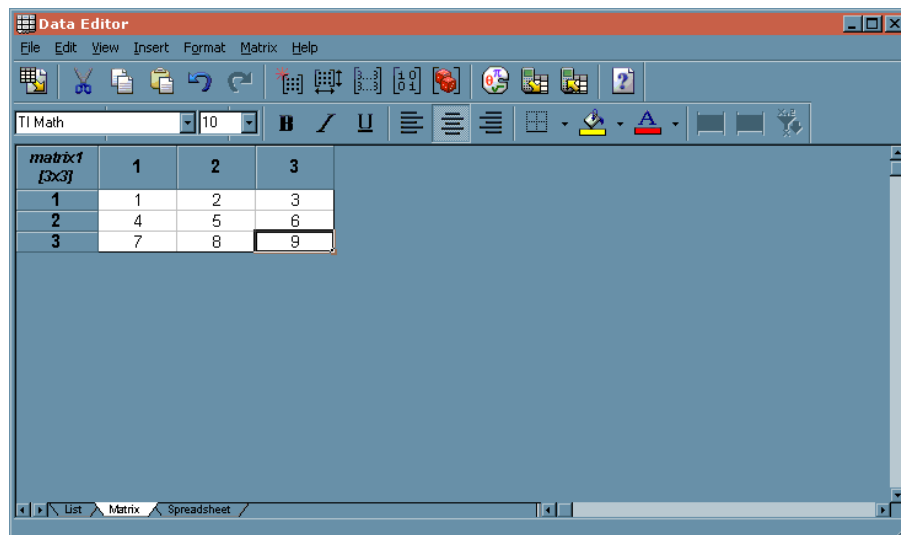


In the **Matrix name** box enter the name **Matrix1**.



Set the **Rows** to **3** and the **Columns** to **3**.
Press **Enter** or click on **OK**.

Enter the following values into the 3x3 matrix.
Press **Enter** or click on **OK**.



Click on the **Save to Document** button.

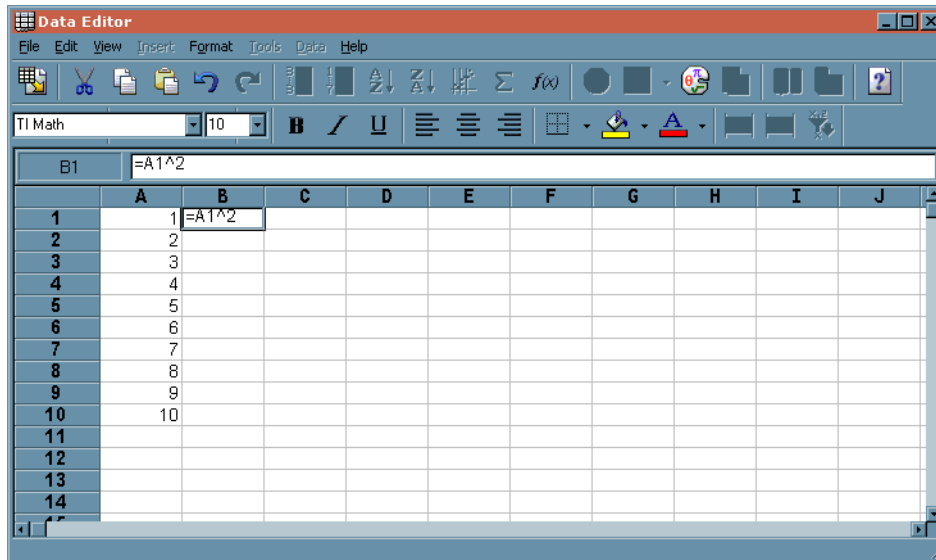


Spreadsheet

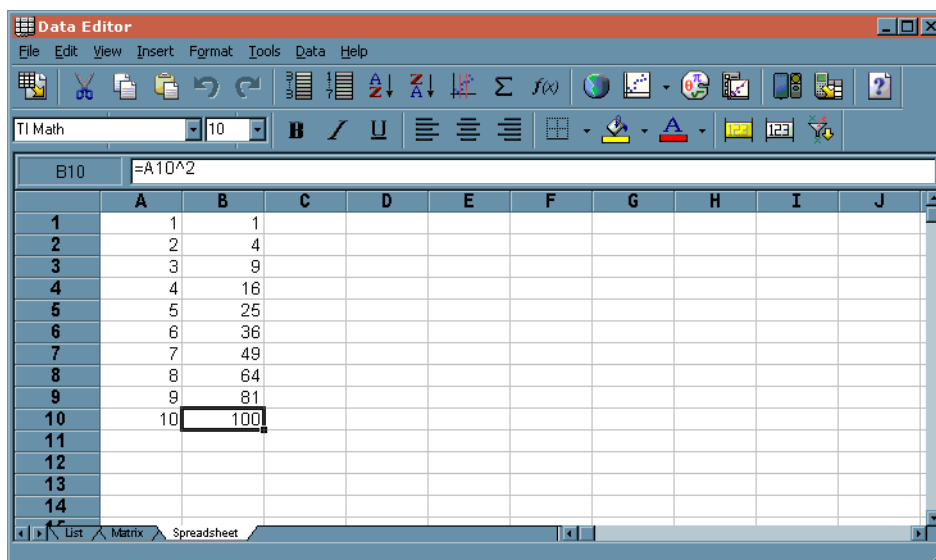
Click on the **Spreadsheet** button.



Enter the numbers **1 to 10** in column **A**
Enter the formula **=A1^2** in cell **B1**



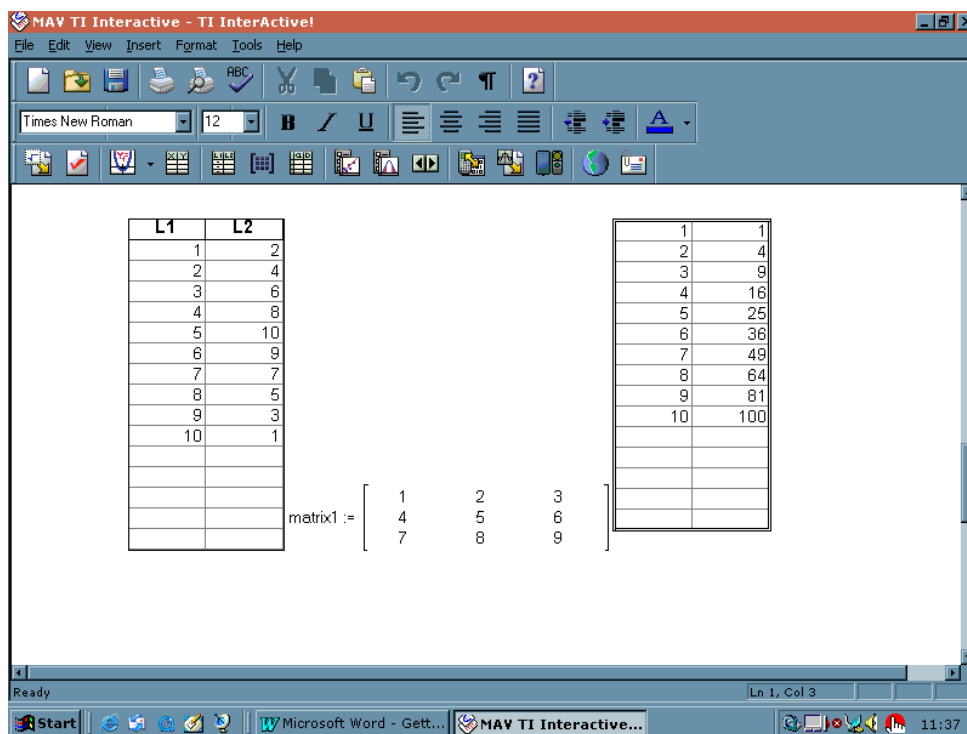
Fill down column **B**



Click on the **Save to Document** button



Your screen should now look like this:



Stat Calculation Tool

Click on the **Stat Calculation Tool** button

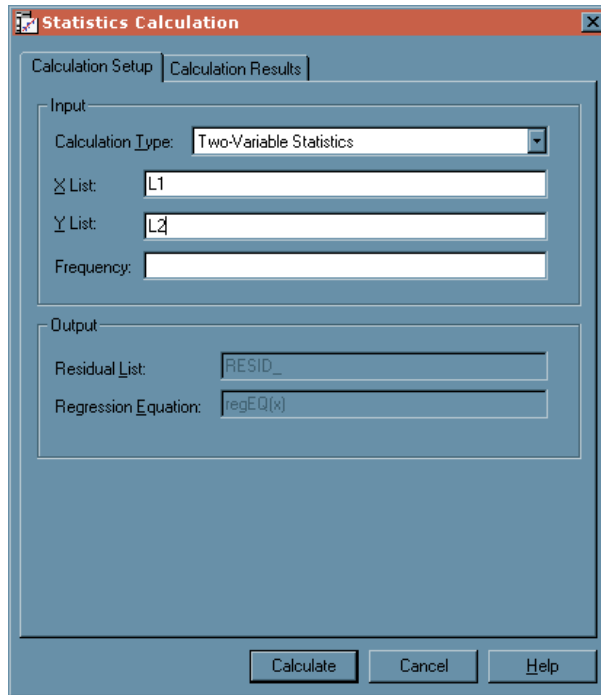


Set the **Calculation Type** to **Two-Variable Statistics**

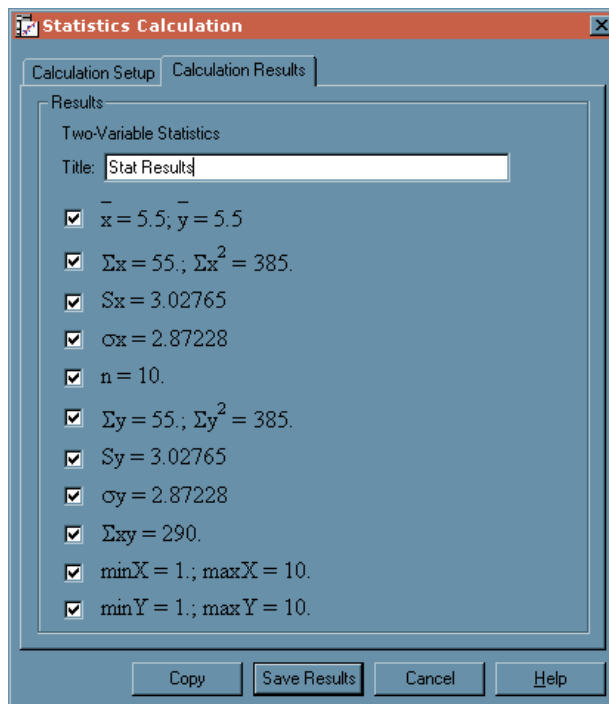
Set the **X List** to **L1**

Set the **Y List** to **L2**

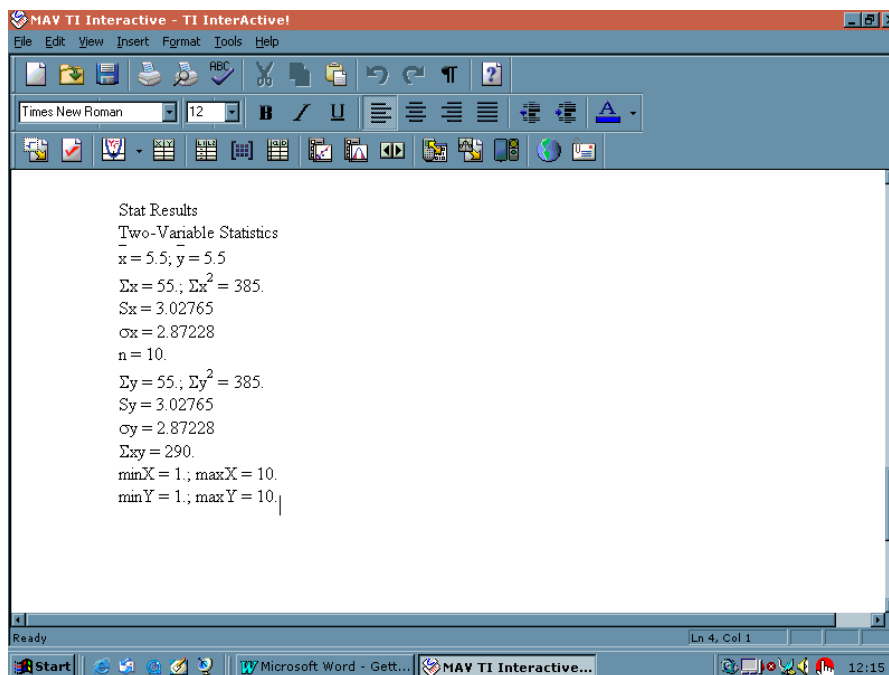
Click on **Calculate**



In the **Title** box, enter **Stat Results**
 Keep all of the boxes ticked
 Click on **Save Results**



The results should now appear in the document

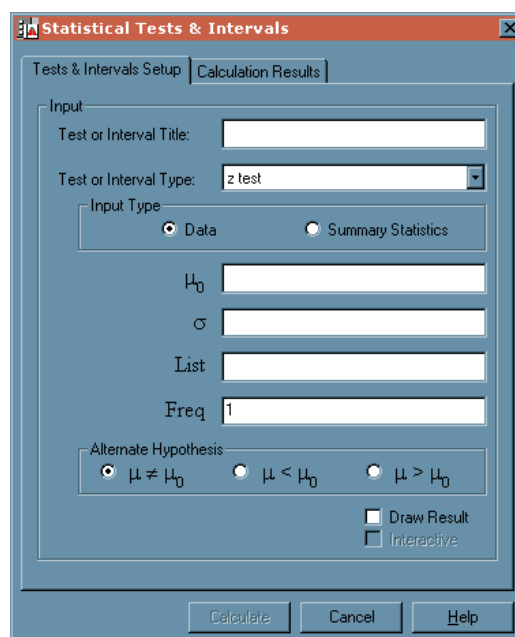


Stat Tests & Intervals Tool

Click on the **Stat Tests & Intervals Tool** button



This dialogue box allows you to enter results for **z tests**. Experiment with entering values.

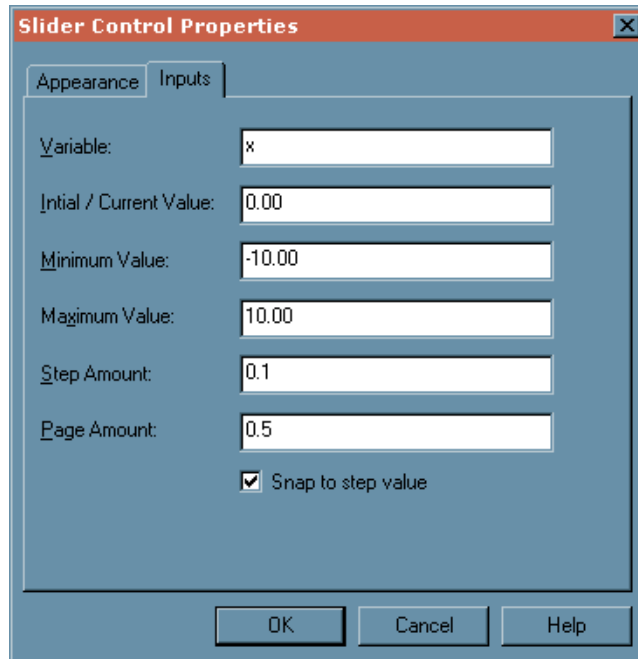


Slider Control

Click on the **Slider Control** button



In the **Variable** box, enter **x**
Press **Enter** or click on **OK**

A screenshot of a dialog box titled "Slider Control Properties". The dialog has two tabs: "Appearance" and "Inputs". The "Inputs" tab is selected. It contains several text input fields and a checkbox. The fields are: "Variable:" with the value "x", "Initial / Current Value:" with "0.00", "Minimum Value:" with "-10.00", "Maximum Value:" with "10.00", "Step Amount:" with "0.1", and "Page Amount:" with "0.5". Below these fields is a checked checkbox labeled "Snap to step value". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

This will produce a slider for the variable **x** that can be adjusted on the screen

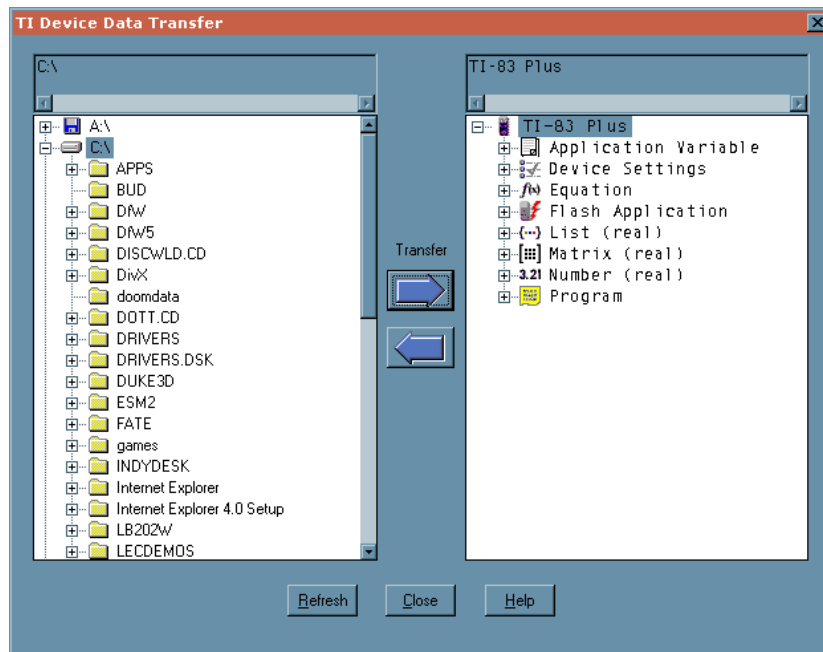
TI Device Data Transfer

Click on the **TI Device Data Transfer** button



If you have a TI Device connected, you can import data to your computer

This screen appeared when the computer was connected to a TI-83+



You can also import and export data from the **File** menu of the **Data Editor** that appears when creating objects such as lists, matrices and spreadsheets.

Screen Capture

If you are connected to a TI device, click on the **Screen Capture** button



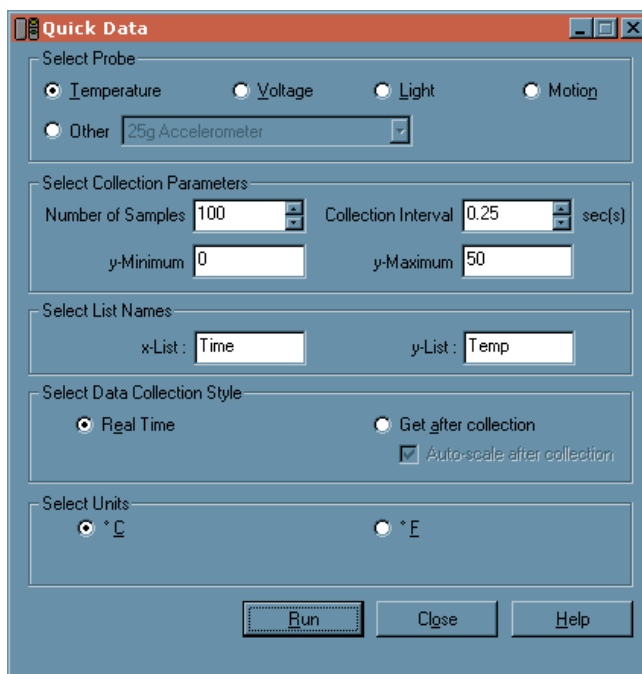
The following lists were captured from the screen of a TI-83+ that was connected to the USB port of the computer

L1	L2	L3	2
1	7	-----	
2	8		
3	9		
4	10		
5	-----		

L2(1)=6			

Quick Data Tool

Click on the **Quick Data Tool** button

A screenshot of the 'Quick Data' dialog box. It has a title bar with 'Quick Data' and standard window controls. The dialog is divided into several sections: 'Select Probe' with radio buttons for Temperature, Voltage, Light, Motion, and a dropdown for 'Other' (25g Accelerometer); 'Select Collection Parameters' with input fields for Number of Samples (100), Collection Interval (0.25 sec(s)), y-Minimum (0), and y-Maximum (50); 'Select List Names' with input fields for x-List (Time) and y-List (Temp); 'Select Data Collection Style' with radio buttons for Real Time and Get after collection, and a checked checkbox for Auto-scale after collection; and 'Select Units' with radio buttons for °C and °F. At the bottom are 'Run', 'Close', and 'Help' buttons.

This allows you to collect data from a variety of probes using a device such as a Computer Based Laboratory (CBL) or a LabPro.

Web Browser

Web Browser button



When you click on the **Web Browser** button, you access the www.education.ti.com site. You can navigate to other websites from this screen.

Email Document

Email Document button



When you click on the **Email Document** button, you access the dialogue box for writing emails. The current TI InterActive document is set as the default attachment.