

TI Technology Guide for Wildfires Nearly Snuffed

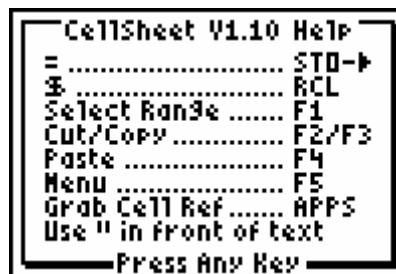
TI-83 Plus and TI-84 Plus Families

Using the Cellsheet™ Application, Creating a List of Data, Finding the Mean and Median for a List of Data

Creating a spread sheet using the Cellsheet™ Application

Starting the Application

Press **[APPS]** to display the list of applications on your calculator. From the APPLICATIONS list, select Celsheet. Press any key to bypass the Introduction screen. The Help screen is next, note the keystroke information for entering cell information and navigating within the spreadsheet.



Press any key to display a new spreadsheet or the last spreadsheet that was opened.

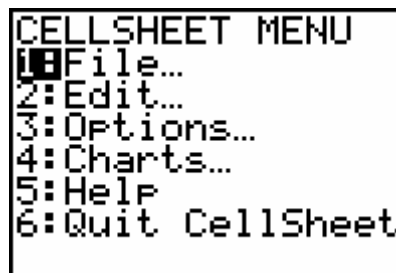
Creating a new spreadsheet

Find the Menu icon at the bottom right of the screen and press **[GRAPH]** to select Menu.

SD1	A	B	C	D
1				
2				
3				
4				
5				
6				

A1: [Menu]

Select 1:File



TI Technology Guide for Wildfires Nearly Snuffed

TI-83 Plus and TI-84 Plus Families

Select 3:New

```
FILE
1:Open...
2:Save As...
3:New...
4>Delete...
5:Format...
6:Recalc
```

Name the new spreadsheet FIRE and press

[ENTER] twice.

```
NEW:..
Old:SO1
New:FIRE
Enter
```

To enter labels for the spreadsheet columns, move the cursor to cell A1 and press **[2nd]** **[A-LOCK]**

WIDTH and press **[ENTER]** Continue in cells B1 through C1 for the remaining labels, LENGTH and PERIM. Remember to indicate that an entry is a text string press **[ALPHA]** to begin the text.

FIRE	A	B	C
1	WIDTH	LENGTH	PERIM
2			
3			
4			
5			
6			

A1: "WIDTH [Menu]

Move the cursor to cell A2. Enter 1 and press

[ENTER] Formulas may be entered into the cell by pressing **[STO▶]** to insert an equal sign and typing the formula. To complete the input in any cell, press **[ENTER]** Move the cursor to A3 and type the formula =A2+1 then press **[ENTER]**

FIRE	A	B	C
1	WIDTH	LENGTH	PERIM
2	1		
3			
4			
5			
6			

A3: =A2+1

To copy the formula down through A26 move the cursor to A3 and press **[ZOOM]** to select Copy. Press **[Y=]** to select Range.

FIRE	A	B	C
1	WIDTH	LENGTH	PERIM
2	1		
3	2		
4			
5			
6			

[Range] [Paste] [Menu]

TI Technology Guide for Wildfires Nearly Snuffed

TI-83 Plus and TI-84 Plus Families

Use the down arrow key (∇) to highlight the cells in the range. Paste the formula into the highlighted cells by pressing $\boxed{\text{TRACE}}$

FIRE	A	B	C
21	20		
22	21		
23	22		
24	23		
25	24		
26	25		
B26: =A25+1			[Menu]

Move to cell B2 and enter **25**. Move to cell B3 and enter the following, $=25/A3$ and press $\boxed{\text{ENTER}}$ Move to cell B3 and copy this formula through cell B26.

FIRE	A	B	C
1	WIDTH	LENGTH	PERIM
2	1	25	
3	2	12.5	
4	3		
5	4		
6	5		
B3: =25/A3			[Menu]

The entries in column B represent the lengths for a given width.

FIRE	A	B	C
22	21	1.1905	
23	22	1.1364	
24	23	1.087	
25	24	1.0417	
26	25	1	
27			
B26: =25/A26			[Menu]

Move to cell C2 and enter $=2A2+2B2$

FIRE	A	B	C
1	WIDTH	LENGTH	PERIM
2	1	25	
3	2	12.5	
4	3	8.3333	
5	4	6.25	
6	5	5	
C2: =2A2+2B2			

Copy the formula through C26. This represents the perimeters for different dimensions of a rectangle with an area of 25.

FIRE	A	B	C
22	21	1.1905	44.381
23	22	1.1364	46.273
24	23	1.087	48.174
25	24	1.0417	50.083
26	25	1	52
27			
C26: =2A26+2B26			[Menu]

TI Technology Guide for Wildfires Nearly Snuffed

TI-83 Plus and TI-84 Plus Families

Creating a List of Data

To enter the data from the Snapshot in the activity, press **[STAT]** and select 1:Edit to access the List Editor window. Be sure to clear any existing data in the lists by highlighting the list name and pressing **[CLEAR]****[ENTER]**. If you see a list other than L1 through L6, press and select **[STAT]**5:SetUpEditor **[ENTER]** and then follow the above instructions.

L1	L2	L3	1
-----	-----	-----	
L1() =			

Move the cursor to the first data position in L1. Enter data from the Snapshot for the cost (in millions of dollars) for the years 1995 through 2000.

L1	L2	L3	1
340	-----	-----	
679			
256			
329			
523			
878			

L1() = 340			

Finding the Mean and Median

Press **[2nd]****[QUIT]** to return to the home screen and then press **[2nd]****[LIST]****[↓]** to **[MATH]** and select 3:mean(

mean(

Press **[2nd]****[L1]****[)]** **[ENTER]** This represents the average (mean) cost for federal agencies from 1995 through 2000.

mean(L1)
500.8333333

TI Technology Guide for Wildfires Nearly Snuffed

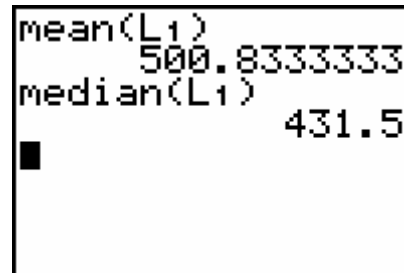
TI-83 Plus and TI-84 Plus Families

Press $\boxed{2\text{nd}}\boxed{[\text{LIST}]}\boxed{\blacktriangleleft}$ to $\boxed{[\text{MATH}]}$ and select 4:median(



```
NAMES OPS  $\boxed{[\text{MATH}]}$ 
1:min(
2:max(
3:mean(
4:median(
5:sum(
6:Prod(
7:stdDev(
```

Press $\boxed{2\text{nd}}\boxed{[\text{L1}]}\boxed{[\text{ENTER}]}$



```
mean(L1)
      500.833333
median(L1)
      431.5
█
```