

TI Technology Guide for World Population in 2050

TI-83 Plus and TI-84 Plus Families

Using the Cellsheet™ Application

Creating a spreadsheet using Cellsheet Application

Starting the Application

Press **[APPS]** to display the list of applications on your calculator. From the APPLICATIONS list, select Cellsheet. 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.

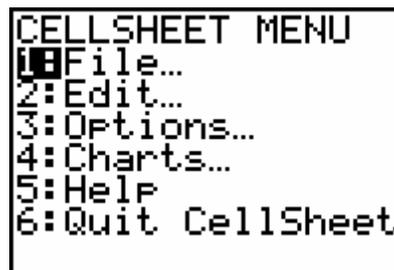
Creating a new spreadsheet

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

SD1	A	B	C
1			
2			
3			
4			
5			
6			

A1: [Menu]

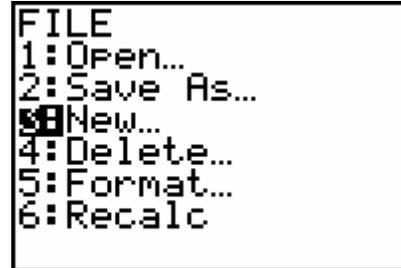
Select 1:File



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Select 3:New



Name the new spreadsheet WP for World Population and press **ENTER** twice.



To enter labels for the spread sheet, move the cursor to A2 and press **2nd** **[A-LOCK]** **["]** ASIA and press **ENTER**. Enter the remaining continents in A3 through A6. Continue in cells B1 through F1 with the following labels,

- PE2000 - percent 2000
- PE2050 - percent 2050
- PO2000 - population in 2000
- PO2050 - population in 2050
- PERCH - percent change in population

Remember to indicate that an entry is a text string press **ALPHA** **["]** to begin the text.

WP	A	B	C
1		2000	2050
2	ASIA		
3	AFRICA		
4	EUROPE		
5	NAMERICA		
6	SAMERICA		
A1:	[Menu]		

Use the data in the Snapshot and enter the percent for each continent for 2000 in column B and 2050 in column C.

WP	A	B	C
2	ASIA	.61	.59
3	AFRICA	.13	.2
4	EUROPE	.12	.071
5	NAMERI	.079	.079
6	SAMERI	.057	.053
7			
A7:	[Menu]		

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Formulas may be entered into the cell by pressing $\boxed{\text{STO}}\blacktriangleright$ to insert an equal sign and typing the formula.

To complete the input in any cell, press $\boxed{\text{ENTER}}$.

Move the cursor to D2 and type the formula $=6*B2$.

Press $\boxed{\text{ENTER}}$. Move the cursor to D3 and copy the formula down through D6 by pressing $\boxed{\text{ZOOM}}$ to select Copy.

HP	C	D	E
1	2050	POP200	POP20
2	.59	3.66	
3	.2		
4	.071		
5	.079		
6	.053		
D2: =6*B2			[Menu]

Press $\boxed{\text{Y=}}$ to select Range. Use the down arrow key (\blacktriangledown) to highlight the cells in the range.

HP	C	D	E
2	.59	3.66	
3	.2		
4	.071		
5	.079		
6	.053		
7			
[Range]			[Paste][Menu]

Paste the formula into the highlighted cells by pressing $\boxed{\text{TRACE}}$.

HP	C	D	E
2	.59	3.66	
3	.2	.78	
4	.071	.72	
5	.079	.474	
6	.053	.342	
7			
D6: =6*B6			[Menu]

Move to cell E2 and enter the following formula, $=9*C2$. This will calculate the estimated population for 2050. Copy the formula down for each of the continents in the spreadsheet using the procedure above.

HP	C	D	E
1	2050	POP200	POP20
2	.59	3.66	5.31
3	.2	.78	1.8
4	.071	.72	.639
5	.079	.474	.711
6	.053	.342	.477
E6: =9*C6			[Menu]

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Move to cell F2 and enter the formula = (E2-D2)/D2*100 to calculate the percent change for each continent from 2000 to 2050.

HP	D	E	F
1	POP200	POP205	PC
2	3.66	5.31	45.082
3	.78	1.8	
4	.72	.639	
5	.474	.711	
6	.342	.477	
F2: =(E2-D2)/D2*100 [Menu]			

Copy the formula down through F6 using the previous procedure.

HP	D	E	F
1	POP200	POP205	PC
2	3.66	5.31	45.082
3	.78	1.8	130.77
4	.72	.639	-11.25
5	.474	.711	50
6	.342	.477	39.474
F6: =(E6-D6)/D6*100 [Menu]			