Top SIX Hidden fx-83/85 Features

1) Mixed numbers			
To TYPE a mixed number:	SHIFT 🚍	to get	(■믐)
To CONVERT to a mixed number:	(Shift) (S+D	to get	$\left(a\frac{b}{c} + \frac{d}{c}\right)$
2) Prime factors			
Type in a number and press equals:	56 =		
To find the prime factors:	SHIFT • • • •	to get	FACT
3) Changing hours to minutes			
Calculate a time in hours:	78÷	20 =	
Convert to hours, minutes & seconds:	° , ,,		
4) Find the magnitude and direction of a vector			
Enter the vector in X, Y form			
The answer is given in polar form	length 5, angle above x-axis 53°		
You can do the reverse using Rec	SHIFT 💻		
This gives the two components of the vector			
5) Random numbers			

Need a random integer between 10 and 20 inclusive?



6) Recurring decimals

The calculator already gives rational answers as fractions or recurring decimals But you can type in recurring decimals too!

e.g. for 1/6



Top FOUR New Features on the fx-83/85 GTX

1) Ratio Mode MENU 4

If you have a question in the form Choose option 2	4 : 5 = 30 : x
Enter the numbers in order	
Press 🔳 one more time	x = 75/2

Or if you have a question in the form 4:5 = x:30Choose option 1

2) Memories

There are 9 memories, just like on the GT+ But it is much easier to store, no need to press SHIFT

And it's much easier to see what they are Just press SHFT STO to get RECALL All nine memories are listed on one screen!

3) Statistics

The GTX is now even better than the silver 991ES Go into Stats Mode MENU 2 Choose option 1 for 1-Variable

Students can enter a list of data values If they want to enter frequencies, press SHFT MENU (1 1 If they don't need frequencies, the calculator will just put 1 each time in that column

To calculate mean, median, quartiles (and standard deviation) Just press OPTN 3 All the summary statistics are listed on one screen ... well, you need to press 文 文 to see them all

The GTX can also do correlation and regression, just like its bigger sibling

4) Table Mode

This is a vastly underrated feature of the fx-83/85 range

If a student has a table of values to fill in, for example drawing a curved graph Go into Table Mode INFNU 3

Enter the function using the x button (SHFT) and powers etc The new GTX has the option of a second function, or just leave it blank

Enter the table range (start and end values, step value)

And now it will even carry on the table! Move the cursor to the bottom of the first column, in the first blank cell Keep pressing 🖃 and it will continue to populate the table

Or you can jump to a completely new number Just type it in the first column and press 🔳 to get the answer

Pressing \blacksquare or \blacksquare makes the x value increase or decrease by the step value from the new position

To get back to the function press AC

==

for helpful videos go to:

https://www.youtube.com/user/UKCasio/videos

or do a Youtube search for "calculator guide fx-83GTX