HP 17bll+
Financial Calculator

## hp calculators

HP 17bll+ Statistics -
Working with lists

Sum lists
Entering data values
Editing data values
Saving and deleting sum lists
Practice modifying sum lists



## Sum lists

On the HP 17bll+, statistics problems are solved in the Sum environment. This is entered from the main menu by pressing


Figure 1
ITEM(1)=?
CHLC IMEF DELETRHAE GET TITHL
Figure 2
On this screen, the menu keys on the bottom of the display perform these functions:

MEF - Creates an empty position in the sum list to allow for the insertion of a data value.
[1] - Deletes the currently displayed data value from the sum list.
What - Allows the present sum list to be saved as a named list in calculator memory.
 have already saved the current list.

TITI - Displays the total of the data values in the current sum list.
The HP 17bll+ uses a different approach to handling statistics problems than other HP calculators. Rather than storing the data values in registers, the HP 17bll+ stores data values in lists that can be named and saved for future use. This also provides the flexibility to have multiple lists of statistical data stored within the calculator at the same time, limited only by the available calculator memory.

## Entering data values

The initial data value is keyed and entered using the
 users: This is an instance where there is a difference between the and add it to a sum list, use $=\frac{1}{\ln }$ rather than data into a sum list will add the number displayed to the list.
 as shown below. The functions shown below are covered in other learning modules.

$$
\begin{aligned}
& \text { 6. } 5 \\
& \text { TITHLL }
\end{aligned}
$$

## Editing data values

As mentioned above, you can insert or delete entries in a sum list.

To delete an entry from the sum list, go to the position in the sum list where the entry to be deleted is displayed and press [IITI. This will delete the currently displayed data value entry from the sum list

To insert an entry into the sum list, go to the position in the sum list where the entry is displayed before which you wish to insert a new data value and press data value. For example, if you have a sum list with 5 entries and you wish to insert a new data value between the present data value \#2 and \#3, you would scroll through the sum list until data value \#3 is displayed and then press Hex:li. This will insert an empty data value entry into position 3 in the list and bump the later data values up one level higher in the sum list.

## Saving and deleting sum lists

The HP 17bll+ makes it easy to keep multiple sum lists in the calculator's memory at the same time. A sum list can be given a name and stored for later retrieval. This is done by pressing IMIIT and then entering a name using the letter keys that are displayed. Once the name is entered, pressing wimpur will save the list as a new object in the calculator's memory.
 screen is displayed:

## SELECT A HAME 

Figure 4
Pressing 패패페 will create a new sum list and allow you to begin entering data values. Pressing any of the other names that might be shown will retrieve the sum list for modification or analysis.

To delete a list, first retrieve it from the calculator's memory and make it the current sum list. Then press $\square$ arour . The screen will show the prompt displayed in figure 5 below.

CLEAR THE LIST?
WES Fill Figure 5
 leave you with an empty list, but the list name is still stored in calculator memory - it is just an empty list now. If you
 delete the list's name from the calculator. This is useful because there will be times when you want to merely clear a list's
 memory but the list will now be empty.


Figure 6

## Practice modifying sum lists

Example 1: Create two sum lists for use in later examples. Name the first list "SALES" and the second list "COSTS".
Solution: Create SALES by pressing the keys shown below.


Create COSTS by pressing:






## SELECT A HAMIE <br> 

Figure 7
Example 2: Select the SALES sum list and insert a data value of 3355 as data value 5 .
 do this example immediately after Example 1.

ITEMCS)=?

Since we wish to add a data value to the end of the list and since Item(5)=? is the prompt displayed, all that is required is entering the new data value and pressing

The screen should now appear as shown in figure 9.
I TEMC 6 ) $=?$
TOTHL=10, 06.5.010
Figure 9
Answer: $\quad$ The list is automatically updated and saved with the additional new data value.

## Example 3: Select the project COSTS and add a data value of 300 that occurs between the existing $2^{\text {nd }}$ and $3^{\text {rd }}$ data values. <br>  <br> Note: Use the and/or keys to move through the sum list the display looks as shown in figure 10 below.

# ITEM(3)=345, 06 


Figure 10

## 

## ITEM(4)=345. 日6 <br> TOTHL=1:458. 616

Figure 11
Answer: $\quad$ The list is automatically updated and saved with the additional data value. Note that the previous Item \#3 has now become Item \#4.

Example 4: Select the project SALES and delete the first data value. Leave all other data values the same.
Solution: $\square$ Exin wixi way
Note: Use the key to move through the sum list the display looks as shown in figure 12 below.
ITEM(1)=1,111. CO


UIII
Answer: The sum list is automatically updated and the deleted data value is removed. Note that the 1122 data value is a result of working through Example 2 above.



