



hp calculators

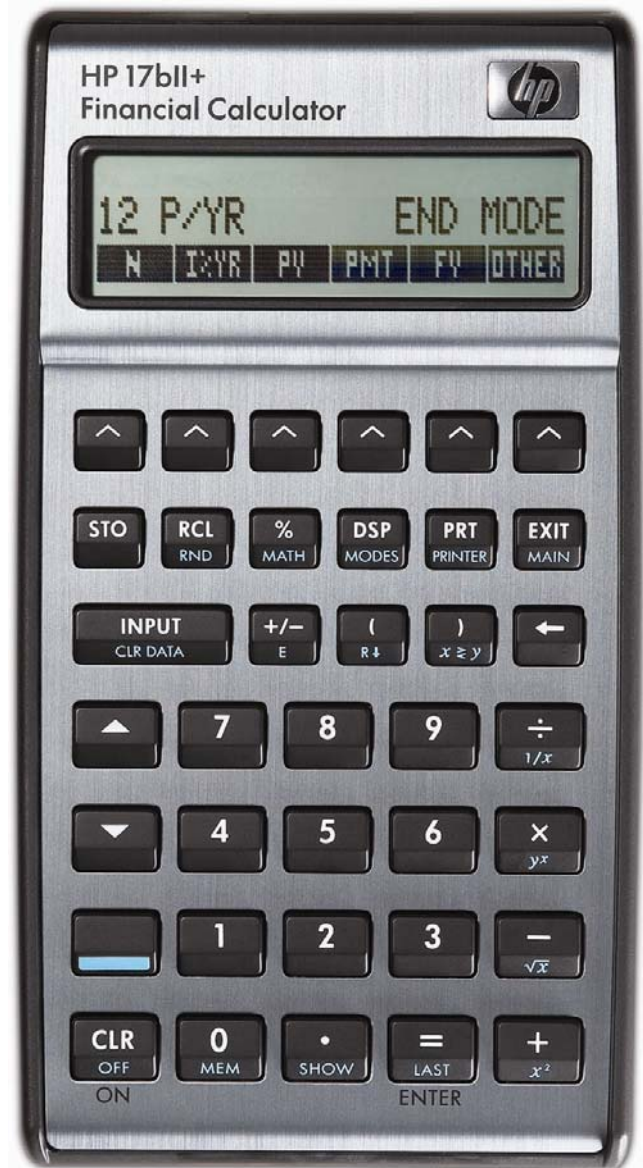
HP 17bII+ Using Memories

Memories

Numbered Registers

Storage Arithmetic

Practice using memories to solve problems



Memories

The HP 17bII+ calculator has several storage areas called memories or registers that can be used to simplify solving problems. These memories hold a number for later use.

Numbered Registers

The HP 17bII+ has 10 memories that are referenced by a number from 0 to 9. These memories are accessed using two keys: **STO** and **RCL**.

To store a number in the display into one of these memories, press **STO** followed by a number from **0** to **9**. Storing a number into a memory will overwrite the previous contents of the memory.

To recall a number from one of these memories to the display where it can be used, press **RCL** followed by a number from **0** to **9**.

Storage Arithmetic

The HP 17bII+ has the ability to perform arithmetic calculations on the values stored in the numbered memories. This is done by pressing **STO**, then one of the arithmetic keys, **+**, **-**, **x**, **÷**, and then a number between **0** to **9**. For example, to multiply the contents of memory 8 by the number presently in the display, press **STO** **x** **8**. The examples will show ways this can be used.

Practice using memories to solve problems

Example 1: Solve $5 + \left(\frac{4}{9}\right) + \left(\frac{2}{\left(5 + \left(\frac{4}{9}\right)\right)}\right)$

Solution: Since this expression has two terms that are exactly the same, we can compute the value of the expression the first time, save it in a memory and then recall the value for use later in the calculation. Note that the value of the expression is not computed and shown in the display until after the **+** key is pressed in the steps shown below. Use memory 1 to hold the intermediate result. The solution is shown in algebraic mode.

5 **+** **(** **4** **÷** **9** **)** **+** **STO** **1** **2** **÷** **RCL** **1** **=**

Answer: 5.81. Note that the closing parentheses just before the **=** are not necessary. Pressing **=** will close all open parentheses automatically.

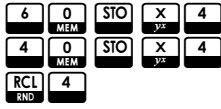
Example 2: Find the product of 90, 85, 70, 60 and 40 using the memory 4.

Solution:

9 **0** **MEM** **STO** **4**
8 **5** **MEM** **STO** **x** **4**
7 **0** **MEM** **STO** **x** **4**

hp calculators

HP 17bII+ Using Memories



Answer: 1,285,200,000.

Example 3: Clear memory 4 assuming it contains the result from the last example.

Solution: To clear a memory register, store a value of zero in it.



Answer: Memory 4 is cleared.