

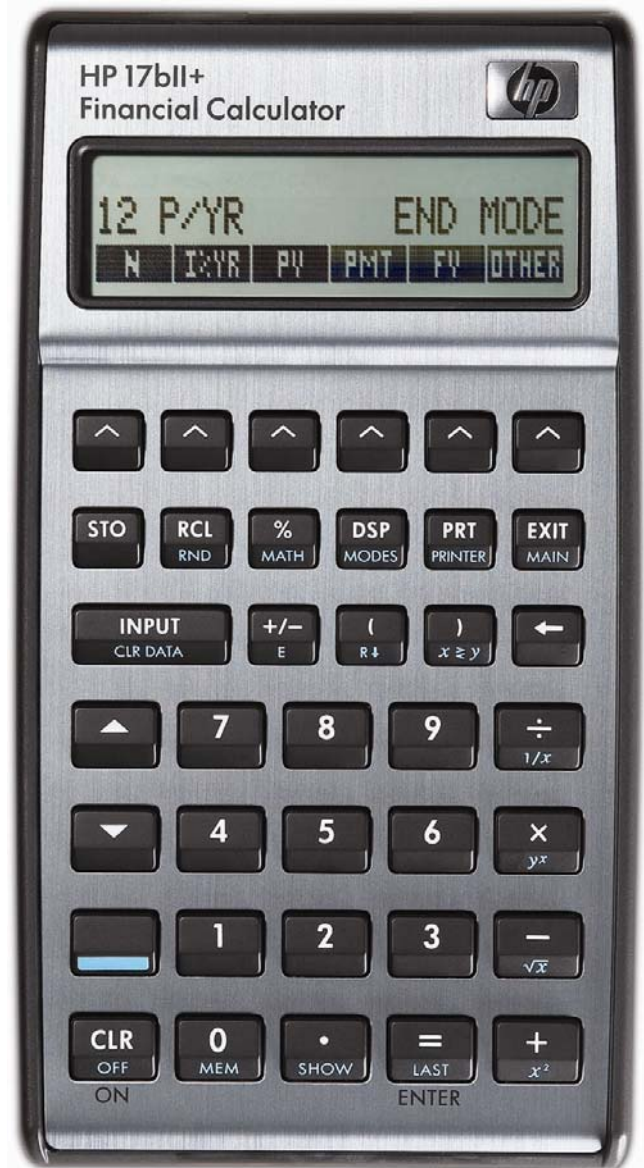


## hp calculators

HP 17bII+ Solving problems involving dates

Date calculations on the HP 17bII+

Practice solving problems involving dates



**Date calculations on the HP 17bII+**

The HP 17bII+ has a built-in calendar that can be used to make calculations involving dates. These abilities are accessible by pressing the **TIME** menu label then pressing **DATE** as shown in figures 1 and 2 below. The HP 17bII+ then displays the set of menu labels for date calculations as shown in figure 3.



Figure 1



Figure 2



Figure 3

As long as two of these three are input, **DATE1 DATE2 DAYS**, the HP 17bII+ will solve for the unknown value. The next two choices, **360D** and **365D**, allow the computation of the dates between dates using a 360 or 365 day calendar. The final menu label will display the current date, **TODAY**, for use or reference.

As figure 3 above shows, dates are entered using 2 digits for the month, then a decimal point, then two digits for the day within the month, followed by 4 digits representing the year. For example, May 10, 2008 would be entered as 5.102008 and December 2, 2009 would be entered as 12.022009. Note that a leading zero for the month is not required, but that for days 1-9 of a month, a zero must be entered along with the day number.

When a date is entered, the HP 17bII+ displays the day of the week upon which it falls, as shown in figure 4 below.



Figure 4

**Practice solving problems involving dates**

Example 1: How many days are between October 17, 2000 and March 16, 2008? Use a 365 day year.

Solution:

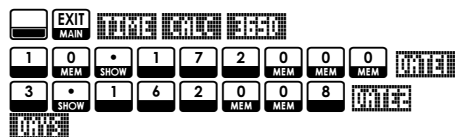


Figure 5

Answer: 2707 days.

Example 2: What day of the week is March 16, 2008? Assume you have just worked example 1.

Solution:





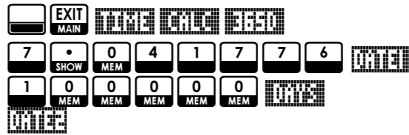
DATE2=03/16/2008 SUN  
DATE1 DATE2 DAYS 360D 365D TODAY

Figure 6

Answer: March 16, 2008 is a Sunday.

Example 3: On what day will the United States be 100,000 days old? In other words, what day is 100,000 days after July 4, 1776? Use a 365 day calendar.

Solution:



EXIT MAIN DATE2 0 4 1 7 7 6 DATE1  
7 . SHOW MEM 4 1 7 7 6 DATE1  
1 0 MEM MEM MEM MEM MEM MEM DATE2



DATE2=04/19/2050 TUE  
DATE1 DATE2 DAYS 360D 365D TODAY

Figure 7

Answer: The United States will be 100,000 days old on April 19, 2050, a Tuesday.