## **Calendar Functions**

The HP-12C calculator provides two calendar functions to perform dates related calculations, the part and part commands. For each of them, the dates input and calculations uses one of two formats, The Month-Day-Year (M.DY) format or the Day-Month-Year (D.MY) format.

#### Month-Day-Year:

To set the M.DY format press [9] M.DY .

To enter a date in this format:

- 1) Type the one or two digits of the month, (1 to 12).
- 2) Press the decimal point key, .
- 3) Type two digits for the day, (01 to 31).
- 4) Type the four digits of the year.

For example, to enter the date May 21st, 2012, type 5.212012

#### **Day-Month-Year:**

To set the D.MY format press **9 D.MY** .When this format is in effect, the **D.MY** status indicator in the display is lit.

To enter a date in this format:

- 1) Type the one or two digits of the day, (1 to 31).
- 2) Press the decimal point key, .
- 3) Type two digits for the month, (01 to 12).
- 4) Type the four digits of the year.

For example, to enter the date May 21st, 2012, type 21.052012

# **9 DATE Calendar Function**

This function key calculates a new date adding the number of days in the stack-X to the date entered in the stack-Y.

The resulting new date in stack-X is displayed using the date format in effect and showing in the right most digit the code for the day of the week (1 for Monday through 7 for Sunday).

## Example: 9 DATE

What date was 1000 days ago if today is december 29th, 2011?.

### (in M.DY mode)

Keystrokes	Description
g M.DY	Set Month-Day-Year format.
Type"12.292011"  ENTER	Type the date and press "ENTER" (or " = " in ALG mode).
Type"1000" CHS	Type the Number of Days and change its sign (negative value because is 1000 days ago).
g DATE	Calculates the new date displaying "04,03,2009 5" which stands for <b>Friday, April 3<sup>rd</sup>, 2009</b> .

### (in D.MY mode)

Keystrokes	Description
g D.MY	Set Day-Month-Year format.
Type"29.122011"  ENTER	Type the date and press "ENTER" (or " = " in ALG mode).
Type"1000" CHS	Type the Number of Days and change its sign (negative value because is 1000 days ago).
g DATE	Calculates the new date displaying "03,04,2009 5" which stands for <b>Friday, April 3</b> <sup>rd</sup> , <b>2009</b> .

# **Galendar Function**

This function key calculates the number of days from a date value in stack-Y to a date value in stack-X. The calculation is performed simultaneously in the actual and 30/360 calendars.

## Example: 9 ADYS

What is the number of days elapsed since the beginning of XXI century if today is Jun 23, 2012 ?.

#### (in M.DY mode)

Keystrokes	Description
g M.DY	Set Month-Day-Year format.
Type"12.311999"  ENTER	Type the initial date and press "ENTER" (or " = " in ALG mode).
Type"6.232012"	Type the end date.
g ADYS	Calculates the number of days between the two dates using the actual calendar. <b>Result = 4,558</b>
$x \leq y$	Shows the number of days between the two dates using 30/360 days calendar. <b>Result = 4,493</b>

### (in D.MY mode)

Keystrokes	Description
g D.MY	Set Day-Month-Year format.
Type"31.121999"  ENTER	Type the initial date and press "ENTER" (or " = " in ALG mode).
Type"23.062012"	Type the end date.
g ADYS	Calculates the number of days between the two dates using the actual calendar. <b>Result = 4,558</b>
$x \leq y$	Shows the number of days between the two dates using 30/360 days calendar. <b>Result = 4,493</b>