

# WEEKNUM Function

Derives the numeric value for the week within the year (1, 2, etc.). Input must be the output of the `DATE` function or a reference to a column containing Datetime values. The output of this function increments on Sunday.

**NOTE:** If the source Datetime value does not include a valid input for this function, a missing value is returned.

## Basic Usage

### Column reference example:

```
derive type:single value:WEEKNUM(MyDate)
```

**Output:** Generates a column of values containing the numeric week number values derived from the `MyDate` column.

## Syntax and Arguments

```
derive type:single value:WEEKNUM(datetime_col)
```

Argument	Required?	Data Type	Description
<code>datetime_col</code>	Y	datetime	Name of column whose week number values are to be computed

For more information on syntax standards, see *Language Documentation Syntax Notes*.

### `datetime_col`

Name of the column whose week number value is to be computed.

- Missing values for this function in the source data result in missing values in the output.
- Multiple columns and wildcards are not supported.

**Tip:** You cannot insert constant Datetime values as inputs to this function. However, you can use the following: `WEEKNUM( DATE( 2017, 12, 20 ) )`.

### Usage Notes:

Required?	Data Type	Example Value
Yes	Datetime	<code>myDate</code>

## Examples

**Tip:** For additional examples, see *Common Tasks*.

### Example - Day of Date functions

This example illustrates how you can apply functions to derive day-of-week values out of a column of Datetime type:

- WEEKDAY - returns numeric value for the day of the week for source Datetime values. See *WEEKDAY Function*.
- WEEKNUM - returns the numeric value for the week within the year for source Datetime values. See *WEEKNUM Function*.
- DATEFORMAT - can be used to format Datetime values in many different ways. See *DATEFORMAT Function*.

**Source:**

myDate
10/30/17
10/31/17
11/1/17
11/2/17
11/3/17
11/4/17
11/5/17
11/6/17

**Transform:**

The following generates a numeric value for the day of week in a new column:

```
derive type:single value: WEEKDAY (myDate) as:'weekDayNum'
```

The following generates a full text version of the name of the day of the week:

```
derive type:single value:DATEFORMAT(myDate, 'EEEE') as:'weekDayNameFull'
```

The following generates a three-letter abbreviation for the name of the day of the week:

```
derive type:single value:DATEFORMAT(myDate, 'EEE') as:'weekDayNameShort'
```

The following generates the numeric value of the week within the year:

```
derive type:single value: WEEKNUM (myDate) as:'weekNum'
```

**Results:**

myDate	weekDayNum	weekDayNameFull	weekDayNameShort	weekNum
10/30/17	1	Monday	Mon	44
10/31/17	2	Tuesday	Tue	44
11/1/17	3	Wednesday	Wed	44
11/2/17	4	Thursday	Thu	44
11/3/17	5	Friday	Fri	44
11/4/17	6	Saturday	Sat	44
11/5/17	7	Sunday	Sun	45

11/6/17	1	Monday	Mon	45
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