

## YEAR, QTR, MONTH, and DAY Functions

General form, YEAR, QTR, MONTH, and DAY functions:

`YEAR(date)`

`QTR(date)`

`MONTH(date)`

`DAY(date)`

where `date` is a SAS date value that is specified either as a variable or as a SAS date constant.



Every SAS date value can be queried for the values of its year, quarter, month, and day.

We can extract these values by using the functions YEAR, QTR, MONTH, and DAY. They each work the same way, so we'll discuss them as a group.

These functions are very similar in purpose and form:

The **YEAR** function returns a four-digit numeric year value

The **QTR** function returns a value of 1, 2, 3, or 4 indicating the quarter of the year

The **MONTH** function returns a numeric month value that ranges from 1 to 12

The **DAY** function returns a numeric day value from 1 to 31

Function	Description	Form	Sample Value
YEAR	Extracts the year value from a SAS date value.	YEAR(date)	2002
QTR	Extracts the quarter value from a SAS date value	QTR(date)	1
MONTH	Extracts the month value from a SAS date value.	MONTH(date)	12
DAY	Extracts the day value from a SAS date value	DAY(date)	5



The **YEAR** function returns a four-digit numeric value that represents the year (for example, 2002).

The **QTR** function returns a value of 1, 2, 3, or 4 from a SAS date value to indicate the quarter of the year in which a date value falls.

The **MONTH** function returns a numeric value that ranges from 1 to 12, representing the month of the year. The value 1 represents January, 2 represents February, and so on.

The **DAY** function returns a numeric value from 1 to 31, representing the day of the month.

### WEEKDAY Function

The WEEKDAY function enables you to extract the day of the week from a SAS date value.

General form, WEEKDAY function:

`WEEKDAY(date)`

where `date` is a SAS date value that is specified either as a variable or as a SAS date constant.



The WEEKDAY function returns a numeric value from 1 to 7. The values represent the days of the week.

Value	equals	Day of the Week
1	=	Sunday
2	=	Monday
3	=	Tuesday
4	=	Wednesday
5	=	Thursday
6	=	Friday
7	=	Saturday

