

# How can I use the QUARTILE function in Excel to calculate the specified quartile of a set of data?

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## RECOMMENDED CITATION

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The QUARTILE function in Excel is a useful tool for calculating the quartile of a given set of data. By inputting the data range and the desired quartile number, the function will automatically calculate the value corresponding to that quartile. This allows for quick and accurate analysis of data, as well as the ability to compare different sets of data based on their quartiles. Simply enter the function formula and parameters into a cell, and the result will be displayed. This function is especially useful in statistical analysis and can save time and effort in manually calculating quartiles.

Returns the quartile of a data set. Quartiles often are used in sales and survey data to divide populations into groups. For example, you can use QUARTILE to find the top 25 percent of incomes in a population.

**Important:** This function has been replaced with one or more new functions that may provide improved accuracy and whose names better reflect their usage. Although this function is still available for backward compatibility, you should consider using the new functions from now on, because this function may not be available in future versions of Excel.

For more information about the new functions, see [QUARTILE.EXC function](#) and [QUARTILE.INC function](#).

## Syntax

QUARTILE(array,quart)

The QUARTILE function syntax has the following arguments:

**Array** Required. The array or cell range of numeric values for which you want the quartile value.

**Quart** Required. Indicates which value to return.

If quart equals	QUARTILE returns
0	Minimum value
1	First quartile (25th percentile)
2	Median value (50th percentile)
3	Third quartile (75th percentile)
4	Maximum value

## Remarks

If array is empty, QUARTILE returns the #NUM! error value.

If quart is not an integer, it is truncated.

If quart < 0 or if quart > 4, QUARTILE returns the #NUM! error value.

MIN, MEDIAN, and MAX return the same value as QUARTILE when quart is equal to 0 (zero), 2, and 4, respectively.

## Example

Copy the example data in the following table, and paste it in cell A1 of a new Excel worksheet. For formulas to show results, select them, press F2, and then press Enter. If you need to, you can adjust the column widths to see all the data.

Data		
1		
2		
4		
7		
8		
9		
10		
12		
Formula	Description (Result)	Result
=QUARTILE(A2:A9,1)	First quartile (25th percentile) of the data above (3.5)	3.5