

How can I calculate the percentile of a given set of data in excel?

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Calculating the percentile of a given set of data in excel can be done by using the PERCENTILE function. This function takes two arguments: the data range and the desired percentile. The function then sorts the data in ascending order and calculates the value at the specified percentile. This allows you to easily determine the position of a specific data point in relation to the entire data set. By using this function, you can accurately determine the percentile of any given data point in excel, providing valuable insights and analysis for your data.

Returns the k-th percentile of values in a range. You can use this function to establish a threshold of acceptance. For example, you can decide to examine candidates who score above the 90th percentile.

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 [PERCENTILE.EXC function](#) and [PERCENTILE.INC function](#).

Syntax

PERCENTILE(array,k)

The PERCENTILE function syntax has the following arguments:

array Required. The array or range of data that defines relative standing.

k Required. The percentile value in the range 0..1, inclusive.

Remarks

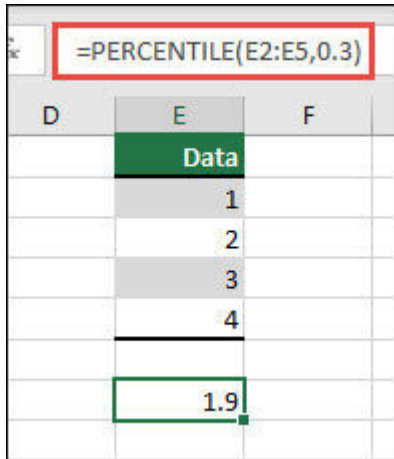
If k is non-numeric, PERCENTILE returns the #VALUE! error value.

If k is < 0 or if k > 1, PERCENTILE returns the #NUM! error value.

If k is not a multiple of $1/(n - 1)$, PERCENTILE interpolates to determine the value at the k-th percentile.

Example

In this example, we'll find the 30th percentile of the list in cells E2:E5.



The image shows an Excel spreadsheet with a formula bar at the top containing the formula `=PERCENTILE(E2:E5,0.3)`. The spreadsheet has columns D, E, and F. Column E contains the data values 1, 2, 3, and 4. The result of the formula, 1.9, is displayed in cell E6.

D	E	F
	Data	
	1	
	2	
	3	
	4	
	1.9	