

How do I use the PERCENTILE.INC function in Excel?

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The PERCENTILE.INC function in Excel is a statistical function that calculates the specified percentile of a set of data values. This function includes the values at both ends of the data range, unlike the PERCENTILE.EXC function which excludes the minimum and maximum values. To use the PERCENTILE.INC function, you need to provide the data range and the desired percentile as arguments. The function will then return the value at the specified percentile. This function is useful for analyzing data sets and determining the relative position of a specific value within the data range. It is commonly used in financial and statistical analysis.

Returns the k-th percentile of values in a range, where k is in the range 0..1, inclusive.

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.

Syntax

PERCENTILE.INC(array,k)

The PERCENTILE.INC 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 array is empty, PERCENTILE.INC returns the #NUM! error value.

If k is nonnumeric, PERCENTILE.INC returns the #VALUE! error value.

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

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

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		
3		
2		
4		
Formula	Description	Result
=PERCENTILE.INC(A2:A5,0.3)	30th percentile of the list in the range A2:A5.	1.9