

How do I use the PERCENTRANK.EXC function in Excel?

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The PERCENTRANK.EXC function in Excel is a tool used to determine the rank of a given value in a data set as a percentage. This function calculates the relative position of a value within a range of data and returns the rank as a decimal value between 0 and 1. To use this function, the user must input the range of data and the value to be ranked. The function then compares the value to the other values in the data set and calculates its position. This can be useful in analyzing and comparing data, as it provides a standardized measure of the value's rank in relation to the other values. Overall, the PERCENTRANK.EXC function is a valuable tool in Excel for evaluating the relative standing of a value within a data set.

Returns the rank of a value in a data set as a percentage (0..1, exclusive) of the data set.

Syntax

PERCENTRANK.EXC(array,x,)

The PERCENTRANK.EXC function syntax has the following arguments:

Array Required. The array or range of data with numeric values that defines relative standing

X Required. The value for which you want to know the rank.

Significance Optional. A value that identifies the number of significant digits for the returned percentage value. If omitted, PERCENTRANK.EXC uses three digits (0.xxx).

Remarks

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

If significance < 1, PERCENTRANK.EXC returns the #NUM! error value.

If x does not match one of the values in array, PERCENTRANK.EXC interpolates to return the correct percentage rank.

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		

Data		
2		
3		
6		
6		
6		
7		
8		
9		
Formula	Description	Result
=PERCENTRANK.EXC(A2:A10, 7)	Returns the rank of the value 7 from the array contained in A2:A10.	0.7
=PERCENTRANK.EXC(A2:A10,5.43)	Returns the rank of the value 5.43 in the same array.	0.381
=PERCENTRANK.EXC(A2:A10,5.43,1)	Returns the rank of the value 5.43 in the same array, displaying only 1 significant digit in the result (the default is 3).	0.3