

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

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The PERCENTRANK.INC function in Excel is a statistical tool that calculates the rank of a given value within a range of data, expressed as a percentage. To use this function, first select the cell where you want the result to be displayed. Then, type "=PERCENTRANK.INC(" into the formula bar, followed by the range of data you want to analyze. Finally, enter the value you want to find the rank for, within that range, and close the parentheses. The function will then return the percentage ranking of that value within the selected data range. This is a useful tool for analyzing data and understanding its distribution within a given range.

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

This function can be used to evaluate the relative standing of a value within a data set. For example, you can use PERCENTRANK.INC to evaluate the standing of an aptitude test score among all scores for the test.

Syntax

PERCENTRANK.INC(array,x,)

The PERCENTRANK.INC 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.INC uses three digits (0.xxx).

Remarks

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

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

If x does not match one of the values in array, PERCENTRANK.INC 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		
13		
12		
11		
8		
4		
3		
2		
1		
1		
1		
Formula	Description	Result
=PERCENTRANK.INC(A2:A11,2)	Percent rank of 2 in the range A2:A11 (0.333, because 3 values in the set are smaller than 2, and 6 are larger than 2; $3/(3+6)=0.333$).	0.333
=PERCENTRANK.INC(A2:A11,4)	Percent rank of 4 in the range A2:A11.	0.555
=PERCENTRANK.INC(A2:A11,8)	Percent rank of 8 in the range A2:A11.	0.666
=PERCENTRANK.INC(A2:A11,5)	Percent rank of 5 in the range A2:A11 (0.583, one-quarter of the way between the PERCENTRANK.INC of 4 and the PERCENTRANK.INC of 8).	0.583