

# How do I use the PERCENTILE.EXC function in Excel?

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## RECOMMENDED CITATION

stats writer (2024). *How do I use the PERCENTILE.EXC function in Excel?*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162527>

The PERCENTILE.EXC function in Excel is a statistical formula designed to calculate the value at a specified percentile in a dataset. To use this function, first select the cell where you want the result to appear. Then, type "=PERCENTILE.EXC(" in the cell and select the range of data you want to analyze. Next, enter the desired percentile value, followed by a closing parenthesis. Press "Enter" and the function will return the value at the specified percentile. This function is particularly useful for analyzing large datasets and identifying key data points.

The PERCENTILE.EXC function returns the k-th percentile of values in a range, where k is in the range 0..1, exclusive.

### **=PERCENTILE.EXC(array,k)**

The PERCENTILE.EXC function syntax has the following arguments:

Argument	Description
<b>array</b> Required	The array or range of data that defines relative standing.
<b>k</b> Required	The array or range of data that defines relative standing.

#### **Notes:**

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

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

If k is  $\leq 0$  or if k  $\geq 1$ , PERCENTILE.EXC returns the #NUM! error value.

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

PERCENTILE.EXC will interpolate when the value for the specified percentile lies between two values in the array. If it cannot interpolate for the percentile, k specified, Excel will return #NUM! error.

## **Example**

Formula bar: `=PERCENTILE.EXC(B2:B10,0.25)`

	A	B	C	D	E	F
1		<b>Data</b>				
2		1				
3		2				
4		3				
5		4				
6		5				
7		6				
8		7				
9		8				
10		9				
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Formula	Result	Description
<code>=PERCENTILE.EXC(B2:B10,0.25)</code>	2.5	Interpolates when the value for the specified percentile lies between two values in the array.
<code>=PERCENTILE.EXC(B2:B10, 0)</code>	#NUM!	Because it can't interpolate for the specified percentile, Excel returns the #NUM! error message.
<code>=PERCENTILE.EXC(B2:B10, 0.01)</code>	#NUM!	Because it can't interpolate for the specified percentile, Excel returns the #NUM! error message.
<code>=PERCENTILE.EXC(B2:B10, 2)</code>	#NUM!	Because the percentile specified is greater than 1, Excel returns the #NUM! error message.

## See Also

[PERCENTILE function](#)

[PERCENTILE.INC function](#)

[Excel functions \(alphabetical\)](#)

Excel functions (by category)

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