

How to use the RANK and SUMPRODUCT functions in Excel with COUNTIF

Sort items in ascending or descending order using a combination of the relatively simple COUNTIF, RANK.EQ, and SUMPRODUCT functions. You can sort items with or without duplicates and maintain control to skip or not skip any ranks in the sort sequence.

By specifying similar ranks for many of the same items, the RANK.EQ function ignores numbers in the overall series. To avoid this omission, use the SUMPRODUCT function with the COUNTIF function. This combination sorts duplicates without skipping numbers.

Using the RANK function in combination with the COUNTIF function

The RANK.EQ function can be used in conjunction with the COUNTIF function to stop skipping numbers, but it will also ignore rank duplication. Although no number is repeated twice, two students with the same number (%) may be ranked differently.

To better understand this, see how RANK.EQ works in conjunction with COUNTIF. The formula has the following form:

```
=RANK.EQ(B2, $B$2:$B$11.0)+COUNTIF($B$2:B2, B2)-1
```

Implementing this formula solves the problem of ignoring numbers.

	A	B	C	D
1	Student Name	Percentage	Rank.EQ	Rank.EQ + COUNTIF
2	James Walker	87	5	5
3	Velma Clemons	83	7	7
4	Kibo Underwood	92	2	2
5	Louis Mcgee	74	9	9
6	Phyllis Paul	89	4	4
7	Zenaida Decker	83	7	8
8	Gillian Tillman	87	5	6
9	Constance Boone	90	3	3
10	Giselle Lancaster	71	10	10
11	Kirsten Mcdowell	95	1	1
12				
13				

There is no overlap in the ranks above. But, James Walker and Gillian Tillman, two people in the same rank, are now ranked in different positions.

Thus, using RANK.EQ with COUNTIF solved half of the problem, but did not produce the desired results.

Using the SUMPRODUCT function with the COUNTIF . function

To rank the students in the list by assigning the same ranks to equivalent percentages without omitting any numbers, you can use the SUMPRODUCT function with COUNTIF.

Take a look at the formula below:

	A	B	C	D	E
1	Student Name	Percentage	Rank.EQ	Rank.EQ + COUNTIF	SUMPRODUCT + COUNTIF
2	James Walker	87	5	5	6
3	Velma Clemons	83	7	7	7
4	Kibo Underwood	92	2	2	2
5	Louis Mcgee	74	9	9	9
6	Phyllis Paul	89	4	4	4
7	Zenaida Decker	83	7	8	6
8	Gillian Tillman	87	5	6	5
9	Constance Boone	90	3	3	3
10	Giselle Lancaster	71	10	10	8
11	Kirsten Mcdowell	95	1	1	1
12					
13					

The formula seems complicated, but it's the best way to rank items correctly. This way you can achieve the desired result with rank overlap and no numbers being ignored.

While giving results to your students, you can directly use the SUMPRODUCT formula as a substitute for the RANK function. To calculate non-duplicate ratings, you can use the RANK.EQ function alone or with the COUNTIF function.

	A	B	C	D	E	F	G
	Student Name	Percentage	Rank.EQ	Rank.EQ + COUNTIF	SUMPRODUCT + COUNTIF		
1	James Walker	87	5	5	5		
2	Velma Clemons	83	7	7	6		
3	Kibo Underwood	92	2	2	2		
4	Louis Mcgee	74	9	9	7		
5	Phyllis Paul	89	4	4	4		
6	Zenaida Decker	83	7	8	6		
7	Gillian Tillman	87	5	6	5		
8	Constance Boone	90	3	3	3		
9	Giselle Lancaster	71	10	10	8		
10	Kirsten McDowell	95	1	1	1		
11							
12							
13							

Change the order of the final result

On the Data tab, click the Sort and Filter group and choose ascending order to sort the ranking.

	A	B	C	D	E	F	G
	Student Name	Percentage	Rank.EQ	Rank.EQ + COUNTIF	SUMPRODUCT + COUNTIF		
1	Kirsten McDowell	95	1	1	1		
2	Kibo Underwood	92	2	2	2		
3	Constance Boone	90	3	3	3		
4	Phyllis Paul	89	4	4	4		
5	James Walker	87	5	5	5		
6	Gillian Tillman	87	5	6	5		
7	Velma Clemons	83	7	7	6		
8	Zenaida Decker	83	7	8	6		
9	Louis Mcgee	74	9	9	7		
10	Giselle Lancaster	71	10	10	8		
11							
12							
13							

Compare the results in three rows side by side to better understand how each method of ranking items works.

Hope you are successful.

You finished reading the article "**How to use the RANK and SUMPRODUCT functions in Excel with COUNTIF**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.