

# How can I count unique values by group in Excel?"

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## RECOMMENDED CITATION

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The process of counting unique values by group in Excel involves using the "COUNTIF" and "SUMPRODUCT" functions. First, create a column that categorizes the data into groups. Then, use the "COUNTIF" function to count the number of occurrences of each unique value within each group. Finally, use the "SUMPRODUCT" function to sum up the count of unique values for each group. This method allows for an efficient and accurate way to count unique values by group in Excel.

## Count Unique Values by Group in Excel

You can use the following formula to count the number of unique values by group in Excel:

```
=SUMPRODUCT(($A$2:$A$13=A2)/COUNTIFS($B$2:$B$13, $B$2:$B$13, $A$2:$A$13, $A$2:$A$13))
```

This formula assumes that the group names are in the range A2:A13 and the values are in the range B2:B13.

The following example shows how to use this formula in practice.

**Example: Count Unique Values by Group in Excel**

**Suppose we have the following dataset that shows the points scored by basketball players on various teams:**

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>				
2	Lakers	15				
3	Lakers	20				
4	Lakers	20				
5	Lakers	22				
6	Warriors	19				
7	Warriors	19				
8	Warriors	19				
9	Warriors	25				
10	Mavericks	14				
11	Mavericks	17				
12	Mavericks	21				
13	Mavericks	30				
14						
15						
16						
17						
18						
19						
20						

Now suppose we'd like to count the number of unique points values, grouped by team.

To do so, we can use the `=UNIQUE()` function to first create a list of the unique teams. We'll type the following formula into cell D2:

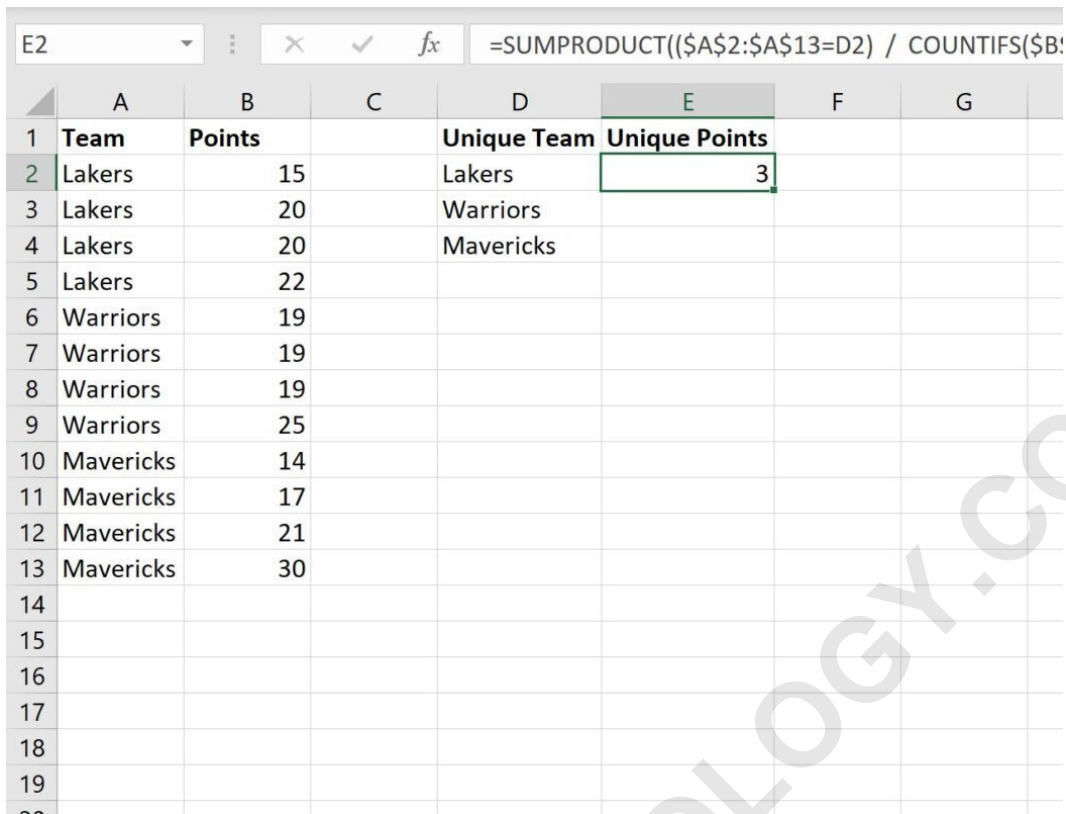
`=UNIQUE(A2:A13)`

Once we press enter, a list of unique team names will be displayed:

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Unique Team</b>		
2	Lakers	15		Lakers		
3	Lakers	20		Warriors		
4	Lakers	20		Mavericks		
5	Lakers	22				
6	Warriors	19				
7	Warriors	19				
8	Warriors	19				
9	Warriors	25				
10	Mavericks	14				
11	Mavericks	17				
12	Mavericks	21				
13	Mavericks	30				
14						
15						
16						
17						
18						
19						

Now we can type the following formula into cell E2 to count the number of unique points values for the Lakers:

**=SUMPRODUCT((\$A\$2:\$A\$13=D2)/COUNTIFS(\$B\$2:\$B\$13, \$B\$2:\$B\$13, \$A\$2:\$A\$13, \$A\$2:\$A\$13))**



	A	B	C	D	E	F	G
1	<b>Team</b>	<b>Points</b>		<b>Unique Team</b>	<b>Unique Points</b>		
2	Lakers	15		Lakers	3		
3	Lakers	20		Warriors			
4	Lakers	20		Mavericks			
5	Lakers	22					
6	Warriors	19					
7	Warriors	19					
8	Warriors	19					
9	Warriors	25					
10	Mavericks	14					
11	Mavericks	17					
12	Mavericks	21					
13	Mavericks	30					
14							
15							
16							
17							
18							
19							
20							

**We'll then drag this formula down to the remaining cells in column E:**

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>		<b>Unique Team</b>	<b>Unique Points</b>	
2	Lakers	15		Lakers	3	
3	Lakers	20		Warriors	2	
4	Lakers	20		Mavericks	4	
5	Lakers	22				
6	Warriors	19				
7	Warriors	19				
8	Warriors	19				
9	Warriors	25				
10	Mavericks	14				
11	Mavericks	17				
12	Mavericks	21				
13	Mavericks	30				
14						
15						
16						
17						
18						
19						
20						
21						

**Column D displays each of the unique teams and column E displays the count of unique points values for each team.**

**The following tutorials explain how to perform other common tasks in Excel:**