

# How can I use VLOOKUP with COUNTIF in Excel?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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VLOOKUP and COUNTIF are two powerful functions in Microsoft Excel that can be used together to efficiently search for and count data in a large dataset. VLOOKUP allows users to search for a specific value in one column and retrieve data from another column in the same row. On the other hand, COUNTIF allows users to count the number of cells that meet a certain criteria. By combining these functions, users can easily search for a value and then count the number of occurrences of that value in a specific range of cells. This can be particularly useful for analyzing data and identifying patterns or trends. To use VLOOKUP with COUNTIF in Excel, simply include the VLOOKUP function as the criteria for COUNTIF, specifying the range of cells to be searched and the value to be counted. This powerful combination can save time and effort in data analysis tasks.

## Excel: Use VLOOKUP with COUNTIF

You can use the following syntax in Excel to use VLOOKUP with a COUNTIF function:

```
=COUNTIF(D2:G4,VLOOKUP(A15,A2:B11,2,0))
```

This particular formula uses VLOOKUP to look up the value in cell A15 in the range A2:B11 and returns the corresponding value in the second column.

Then, the formula uses COUNTIF to count the number of times the value returned by the VLOOKUP function occurs in the range D2:G4.

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

## Example: How to Use VLOOKUP with COUNTIF in Excel

Suppose we have one dataset in Excel that contains basketball team names and team ID values.

Suppose we also have a dataset that contains the three team ID values that scored the most points in various weeks:

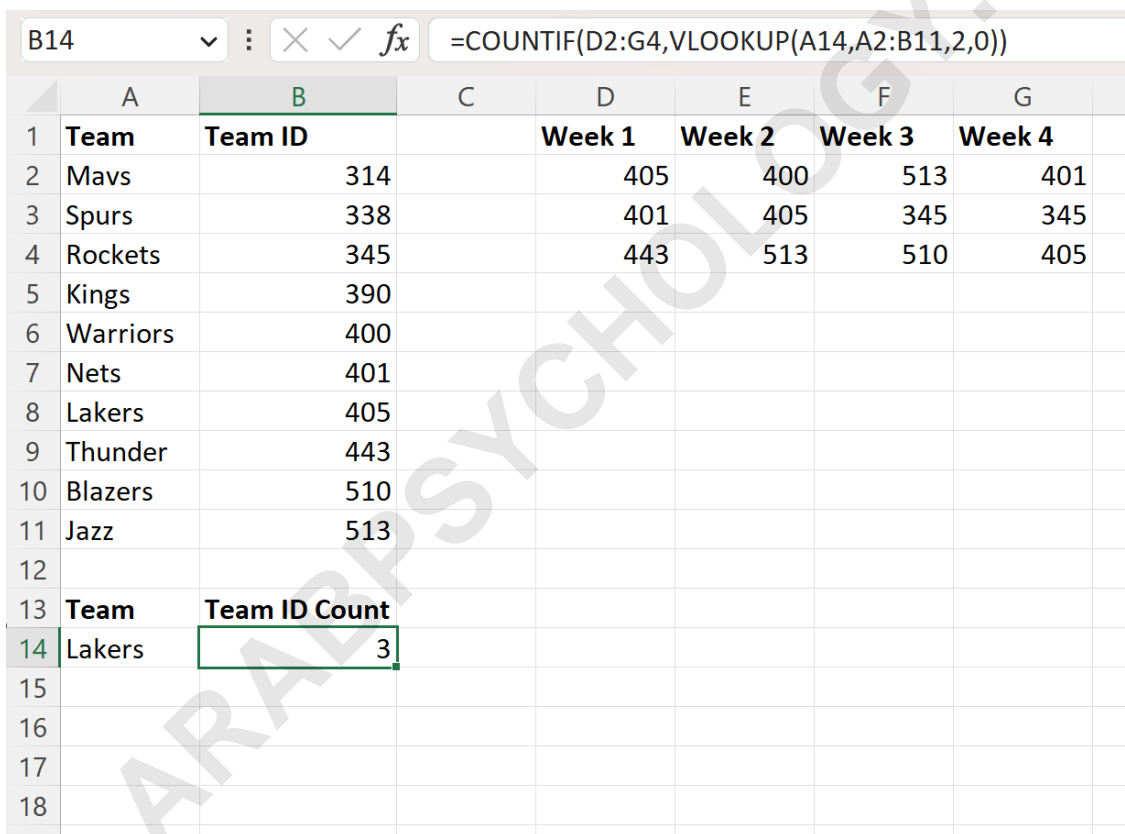
	A	B	C	D	E	F	G
1	Team	Team ID		Week 1	Week 2	Week 3	Week 4
2	Mavs	314		405	400	513	401
3	Spurs	338		401	405	345	345
4	Rockets	345		443	513	510	405
5	Kings	390					
6	Warriors	400					
7	Nets	401					
8	Lakers	405					
9	Thunder	443					
10	Blazers	510					
11	Jazz	513					
12							
13							
14							
15							
16							
17							

Suppose we would like to count the number of times that the team ID value associated with the Lakers occurred in the dataset that shows the highest-scoring teams per week.

We can type the following formula into cell B14 to do so:

**=COUNTIF(D2:G4,VLOOKUP(A15,A2:B11,2,0))**

The following screenshot shows how to use this formula in practice:



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G
1	<b>Team</b>	<b>Team ID</b>		<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>
2	Mavs	314		405	400	513	401
3	Spurs	338		401	405	345	345
4	Rockets	345		443	513	510	405
5	Kings	390					
6	Warriors	400					
7	Nets	401					
8	Lakers	405					
9	Thunder	443					
10	Blazers	510					
11	Jazz	513					
12							
13	<b>Team</b>	<b>Team ID Count</b>					
14	Lakers	3					
15							
16							
17							
18							

The formula bar for cell B14 shows: `=COUNTIF(D2:G4,VLOOKUP(A14,A2:B11,2,0))`

This formula uses a VLOOKUP to find "Lakers" in the team column and return a value of 405.

It then uses COUNTIF to count the number of times 405

occurred in the weekly dataset and returned a value of 3.

We can verify that this is correct by manually identifying the three times that the value 405 occurred in the weekly dataset:

	A	B	C	D	E	F	G
1	<b>Team</b>	<b>Team ID</b>		<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>
2	Mavs	314		405	400	513	401
3	Spurs	338		401	405	345	345
4	Rockets	345		443	513	510	405
5	Kings	390					
6	Warriors	400					
7	Nets	401					
8	Lakers	405					
9	Thunder	443					
10	Blazers	510					
11	Jazz	513					
12							
13	<b>Team</b>	<b>Team ID Count</b>					
14	Lakers	3					
15							
16							
17							
18							
19							
20							

We can see that the value 405 does indeed occur 3 times.

The following tutorials explain how to perform other

## common tasks in Excel:

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