

How can I calculate the conditional mean in Excel?

Authored by
stats writer

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The process of calculating the conditional mean in Excel involves using the AVERAGEIF or AVERAGEIFS function, which allows you to specify a criteria or multiple criteria to calculate the average of a specific set of data. This function is useful when you want to find the average value of a dataset based on a certain condition, such as a specific category or range of values. By using this function, you can easily and accurately determine the conditional mean of your data in an organized and efficient manner.

Calculate Conditional Mean in Excel (With Examples)

You can use the AVERAGEIF function in Excel to calculate a conditional mean.

This function uses the following basic syntax:

```
=AVERAGEIF(A2:A7, "some value", B2:B7)
```

This particular formula calculates the average value in the range B2:B7 where the corresponding value in the range A2:A7 is equal to "some value."

The following examples show how to use this function to calculate a conditional mean using the following dataset in Excel:

	A	B	C	D	E	F
1	Team	Points	Assists			
2	A	99	33			
3	A	90	28			
4	A	93	31			
5	B	86	39			
6	B	88	34			
7	B	82	30			
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Example 1: Calculate Conditional Mean for Categorical Data

We can use the following formula to calculate the mean of the Points column only for the rows where the Team column has a value of "A."

=AVERAGEIF(A2:A7, "A", B2:B7)

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

The image shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G
1	Team	Points	Assists		Avg. Points for Team A		
2	A	99	33		94		
3	A	90	28				
4	A	93	31				
5	B	86	39				
6	B	88	34				
7	B	82	30				
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

The formula bar shows the formula: `=AVERAGEIF(A2:A7, "A", B2:B7)`

The mean value in the Points column for the rows where Team is equal to "A" is 94.

We can manually verify this is correct by calculating the average of the points values for only the rows where Team is equal to "A":

Average of Points: $(99 + 90 + 93) / 3 = 94$

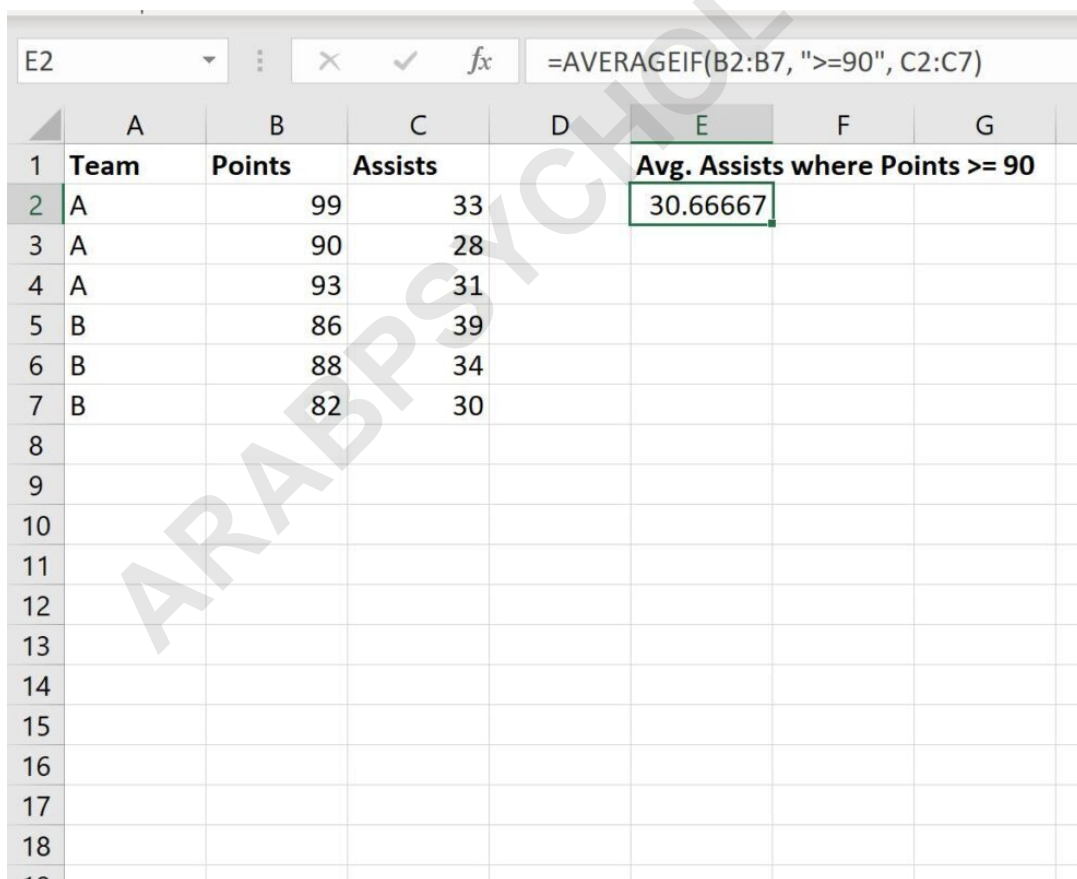
This matches the value calculated by the **AVERAGEIF** function.

Example 2: Calculate Conditional Mean for Numeric Data

We can use the following formula to calculate the mean of the Assists column only for the rows where the Points column has a value greater than or equal to 90:

=AVERAGEIF(B2:B7, ">=90", C2:C7)

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



	A	B	C	D	E	F	G
1	Team	Points	Assists		Avg. Assists where Points >= 90		
2	A	99	33		30.66667		
3	A	90	28				
4	A	93	31				
5	B	86	39				
6	B	88	34				
7	B	82	30				
8							
9							
10							
11							
12							
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19							

The mean value in the Assists column for the rows

where Points is greater than or equal to 90 is 30.66667.

We can manually verify this is correct by calculating the average of the assists values for only the rows where points is greater than or equal to 90:

Average of Assists: $(33 + 28 + 31) / 3 = 30.66667$

This matches the value calculated by the AVERAGEIF function.

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