

What is the difference between SUMIF and SUMIFS in Excel?

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=101972>

SUMIF is a function in Excel used to sum the values in a range based on a single criteria. SUMIFS is a function in Excel used to sum the values in a range based on multiple criteria. SUMIFS can also be used for more complex criteria, such as checking whether a value is greater than, less than, or equal to a certain number.

In Excel, the **SUMIF** and **SUMIFS** functions both sum the cells in a range that meet a certain condition, but they use slightly different behaviors:

The **SUMIF** function sums the number of cells in a range that meet **one condition**.

The **SUMIFS** function counts the number of cells in a range that meet **several conditions**.

The following examples show how to use each function in practice with the following data in Excel:

	A	B	C	D	E	F
1	Team	Rebounds	Points			
2	Mavs	6	21			
3	Mavs	8	14			
4	Mavs	12	16			
5	Mavs	4	16			
6	Mavs	4	19			
7	Spurs	6	20			
8	Spurs	3	26			
9	Spurs	7	31			
10	Spurs	8	30			
11	Spurs	11	25			
12	Rockets	5	11			
13	Rockets	4	15			
14	Rockets	2	18			
15	Rockets	9	29			
16	Rockets	3	10			
17						
18						
19						
20						

Example 1: Using SUMIF

We can use the following **SUMIF** formula to sum the values in the Points column where the value in the Team column is equal to "Mavs":

=SUMIF(A2:A16, "Mavs", C2:C16)

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

E2				fx		=SUMIF(A2:A16, "Mavs", C2:C16)	
	A	B	C	D	E	F	G
1	Team	Rebounds	Points		Sum of Points for Mavs		
2	Mavs	6	21		86		
3	Mavs	8	14				
4	Mavs	12	16				
5	Mavs	4	16				
6	Mavs	4	19				
7	Spurs	6	20				
8	Spurs	3	26				
9	Spurs	7	31				
10	Spurs	8	30				
11	Spurs	11	25				
12	Rockets	5	11				
13	Rockets	4	15				
14	Rockets	2	18				
15	Rockets	9	29				
16	Rockets	3	10				
17							
18							
19							
20							

The sum of the points for the rows where team is equal to "Mavs" is **86**.

Example 2: Using SUMIFS

We can use the following **SUMIFS** formula to sum the values in the Points column where the value in the Team column is equal to "Mavs" and the value in the Rebounds column is greater than 5:

=SUMIFS(C2:C16, A2:A16, "Mavs", B2:B16, ">5")

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

E2					=SUMIFS(C2:C16, A2:A16, "Mavs", B2:B16, ">5")			
	A	B	C	D	E	F	G	H
1	Team	Rebounds	Points		Sum of Points for Mavs & Rebounds > 5			
2	Mavs	6	21		51			
3	Mavs	8	14					
4	Mavs	12	16					
5	Mavs	4	16					
6	Mavs	4	19					
7	Spurs	6	20					
8	Spurs	3	26					
9	Spurs	7	31					
10	Spurs	8	30					
11	Spurs	11	25					
12	Rockets	5	11					
13	Rockets	4	15					
14	Rockets	2	18					
15	Rockets	9	29					
16	Rockets	3	10					
17								
18								
19								
20								
21								

The sum of points for the rows where team is equal to "Mavs" and rebounds is greater than 5 is **51**.

Note: Refer to the Excel documentation page for a complete explanation of the and functions.