

What is the Excel SUMIF function used for?

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June 29, 2024

RECOMMENDED CITATION

stats writer (2024). *What is the Excel SUMIF function used for?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=158307>

The Excel SUMIF function is a tool that allows users to sum a range of values based on a specific criteria or condition. This function is useful for quickly calculating totals for specific data points within a larger dataset. It is commonly used in financial analysis, budgeting, and data management to efficiently calculate and analyze data. By specifying a range to sum and a condition to be met, the SUMIF function can quickly calculate the desired result. This makes it a valuable tool for individuals and businesses looking to streamline their data analysis and reporting processes.

Excel SUMIF Function

SUMIF Function

The **SUMIF** function is a premade function in Excel, which calculates the sum of values in a range based on a **true** or **false condition**.

It is typed =SUMIF:

=SUMIF(**range**, **criteria**,)

The **condition** is referred to as **criteria**, which can check things like:

If a number is **greater than** another number > If a number is **smaller than** another number < If a number or text is **equal** to something =

The is the range where the function calculates the sum.

Note: The is optional.

If not specified, the function calculates the sum of the same range as the condition.

Note: The different parts of the function are separated by a symbol, like comma , or semicolon ;

The symbol depends on your Language Settings.

Example SUMIF function

Find the sum of Total stats for Grass type Pokemon:

The condition is that the type is "Grass".

	A	B	C	D	E	F	G
1	Name	Type 1	Total				
2	Bulbasaur	Grass	318		Type	Total Sum	
3	Ivysaur	Grass	405		Grass		
4	Venusaur	Grass	525		Fire		
5	Charmander	Fire	309		Water		
6	Charmeleon	Fire	405				
7	Charizard	Fire	534				
8	Squirtle	Water	314				
9	Wartortle	Water	405				
10	Blastoise	Water	530				
11							

Example **SUMIF** function, step by step:

Select the cell F3Type =SUMIFDouble click the **SUMIF** command

	A	B	C	D	E	F	G	H	I	J	K
1	Name	Type 1	Total								
2	Bulbasaur	Grass	318		Type	Total Sum					
3	Ivysaur	Grass	405		Grass	=SUMIF					
4	Venusaur	Grass	525		Fire						
5	Charmander	Fire	309		Water						
6	Charmeleon	Fire	405								
7	Charizard	Fire	534								
8	Squirtle	Water	314								
9	Wartortle	Water	405								
10	Blastoise	Water	530								
11											

Specify the range for the conditionB2:B10 (the Type 1 values)Type , Specify the criteria (the cell E3, which has the value "Grass")Type , Specify the range for the sum C2:C10 (the Total values)Type , Hit enter

	A	B	C	D	E	F	G	H	I
1	Name	Type 1	Total						
2	Bulbasaur	Grass	318		Type	Total Sum			
3	Ivysaur	Grass	405		Grass	=SUMIF(B2:B10; E3; C2:C10)			
4	Venusaur	Grass	525		Fire	SUMIF (range; criteria; [sum_range])			
5	Charmander	Fire	309		Water				
6	Charmeleon	Fire	405						
7	Charizard	Fire	534						
8	Squirtle	Water	314						
9	Wartortle	Water	405						
10	Blastoise	Water	530						
11									

The function now sums the Total stats for Grass type Pokemon.

The function can be repeated for the other Pokemon types to compare them:

	A	B	C	D	E	F	G
1	Name	Type 1	Total				
2	Bulbasaur	Grass	318		Type	Total Sum	
3	Ivysaur	Grass	405		Grass	=SUMIF(B2:B10; E3; C2:C10)	
4	Venusaur	Grass	525		Fire	=SUMIF(B2:B10; E4; C2:C10)	
5	Charmander	Fire	309		Water	=SUMIF(B2:B10; E5; C2:C10)	
6	Charmeleon	Fire	405			SUMIF (range; criteria; [sum_range])	
7	Charizard	Fire	534				
8	Squirtle	Water	314				
9	Wartortle	Water	405				
10	Blastoise	Water	530				
11							

Note: You can use the filling function for the other rows, but make sure to use absolute references for the ranges.

Now, we can see the sum of total stats for the different types of Pokemon:

	A	B	C	D	E	F	G
1	Name	Type 1	Total				
2	Bulbasaur	Grass	318		Type	Total Sum	
3	Ivysaur	Grass	405		Grass	1248	
4	Venusaur	Grass	525		Fire	1248	
5	Charmander	Fire	309		Water	1249	
6	Charmeleon	Fire	405				
7	Charizard	Fire	534				
8	Squirtle	Water	314				
9	Wartortle	Water	405				
10	Blastoise	Water	530				
11							

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