“What is the purpose of the Excel AVERAGEIF function?”

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The Excel AVERAGEIF function is designed to calculate the average of a range of cells that meet a specific criteria. It allows users to specify a condition or criteria for the cells to be included in the calculation, providing a more precise and targeted way to calculate the average. This function is particularly useful for analyzing data sets that contain a large amount of information, allowing users to easily calculate the average of specific data points without having to manually filter and calculate the values. Overall, the purpose of the AVERAGEIF function is to make data analysis and calculations more efficient and accurate.

Excel AVERAGEIF Function

AVERAGEIF Function

The **AVERAGEIF** function is a premade function in Excel, which calculates the average of a range based on a **true** or **falsecondition**.

It is typed `=AVERAGEIF` and has three parts:

=AVERAGEIF(**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 average.

Note: The is optional.

If not specified, the function calculates the average of the same range as 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 AVERAGEIF function

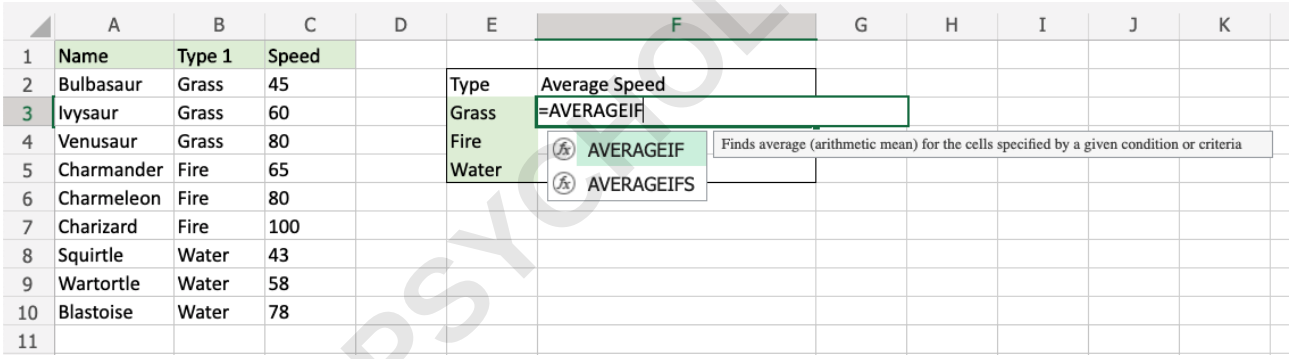
Find the average speed of Grass type Pokemon:

The condition is that the type is "Grass".

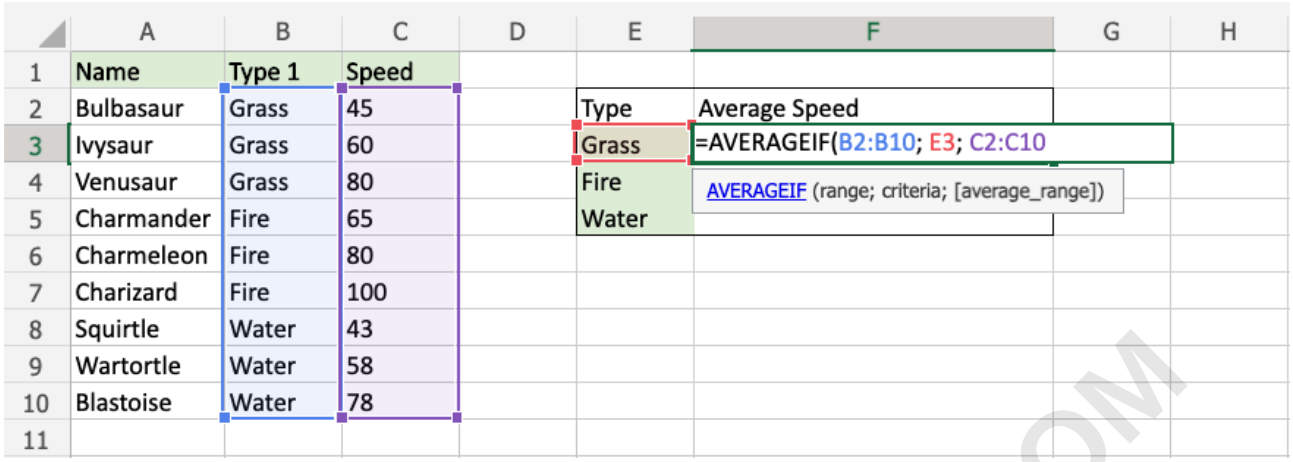
	A	B	C	D	E	F	G
1	Name	Type 1	Speed				
2	Bulbasaur	Grass	45		Type	Average Speed	
3	Ivysaur	Grass	60		Grass		
4	Venusaur	Grass	80		Fire		
5	Charmander	Fire	65		Water		
6	Charmeleon	Fire	80				
7	Charizard	Fire	100				
8	Squirtle	Water	43				
9	Wartortle	Water	58				
10	Blastoise	Water	78				
11							

Example **AVERAGEIF** function, step by step:

Select the cell `F3`Type `=AVERAGEIF`Double click the **AVERAGEIF** command



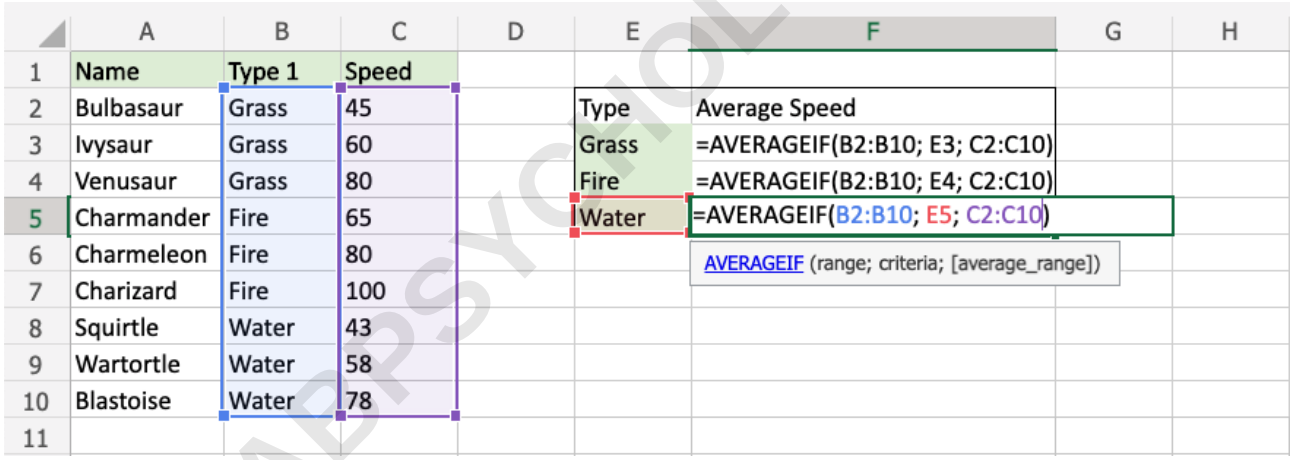
Specify the range for the condition `B2:B10` (the Type 1 values)Type `,`Specify the criteria (the cell `E3`, which has the value "Grass")Type `,`Specify the range for the average `C2:C10` (the Speed values)Hit enter



	A	B	C	D	E	F	G	H
1	Name	Type 1	Speed					
2	Bulbasaur	Grass	45		Type	Average Speed		
3	Ivysaur	Grass	60		Grass	=AVERAGEIF(B2:B10; E3; C2:C10		
4	Venusaur	Grass	80		Fire			
5	Charmander	Fire	65		Water			
6	Charmeleon	Fire	80					
7	Charizard	Fire	100					
8	Squirtle	Water	43					
9	Wartortle	Water	58					
10	Blastoise	Water	78					
11								

The function now calculates the average speed value of the Grass type Pokemon: Bulbasaur, Ivysaur and Venusaur.

The function can be repeated for Fire and Water type Pokemon to compare them:



	A	B	C	D	E	F	G	H
1	Name	Type 1	Speed					
2	Bulbasaur	Grass	45		Type	Average Speed		
3	Ivysaur	Grass	60		Grass	=AVERAGEIF(B2:B10; E3; C2:C10)		
4	Venusaur	Grass	80		Fire	=AVERAGEIF(B2:B10; E4; C2:C10)		
5	Charmander	Fire	65		Water	=AVERAGEIF(B2:B10; E5; C2:C10)		
6	Charmeleon	Fire	80					
7	Charizard	Fire	100					
8	Squirtle	Water	43					
9	Wartortle	Water	58					
10	Blastoise	Water	78					
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 average speed values of each type:

	A	B	C	D	E	F	G
1	Name	Type 1	Speed				
2	Bulbasaur	Grass	45		Type	Average Speed	
3	Ivysaur	Grass	60		Grass	61,67	
4	Venusaur	Grass	80		Fire	81,67	
5	Charmander	Fire	65		Water	59,67	
6	Charmeleon	Fire	80				
7	Charizard	Fire	100				
8	Squirtle	Water	43				
9	Wartortle	Water	58				
10	Blastoise	Water	78				
11							