

“What is the purpose of the Google Sheets OR function?”

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RECOMMENDED CITATION

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=160529>

The purpose of the Google Sheets OR function is to provide a logical operator that allows users to check multiple conditions and return a true or false value based on whether any of the conditions are met. This function is useful for creating more complex formulas and automating data analysis tasks in spreadsheets. It helps users save time and increase efficiency in their data management and analysis processes.

Google Sheets OR Function

OR Function

The **OR** function is a premade function in Google Sheets, which returns **TRUE** or **FALSE** based on two or more **conditions**.

It is typed =OR.

Note: The OR function is often used together with the IF function.

=OR(logical_expression1,)

The **conditions** are referred to as , , and so on.

The conditions 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 =

Example OR Function

Check if the Pokemon type is water **OR** has defense **greater than** 60:

The function returns "TRUE" or "FALSE".

	A	B	C	D	E
1	Name	Type 1	Defense	Water Type OR more than 60 Defense	
2	Bulbasaur	Grass	49		
3	Ivysaur	Grass	63		
4	Venusaur	Grass	83		
5	Charmander	Fire	43		
6	Charmeleon	Fire	58		
7	Charizard	Fire	78		
8	Squirtle	Water	65		
9	Wartortle	Water	80		
10	Blastoise	Water	100		
11					

Example **OR** function, step by step:

Select the cell D2Type =ORClick the **OR** command

	A	B	C	D	E	F
1	Name	Type 1	Defense	Water Type OR more than 60 Defense		
2	Bulbasaur	Grass	49	=OR		
3	Ivysaur	Grass	63	OR		
4	Venusaur	Grass	83	Logical or operator.		
5	Charmander	Fire	43			
6	Charmeleon	Fire	58			
7	Charizard	Fire	78			
8	Squirtle	Water	65			
9	Wartortle	Water	80			
10	Blastoise	Water	100			
11						

Specify the first condition B2="water"Type , Specify the second condition C2>60Hit enter

Note: You can add more conditions by repeating steps 5-6 before hitting enter.

	A	B	C	D	E	F
1	Name	Type 1	Defense	Is Type OR more than 60 Defense		
2	Bulbasaur	Grass	49	=OR(B2="Water", C2>60)		
3	Ivysaur	Grass	63			
4	Venusaur	Grass	83			
5	Charmander	Fire	43			
6	Charmeleon	Fire	58			
7	Charizard	Fire	78			
8	Squirtle	Water	65			
9	Wartortle	Water	80			
10	Blastoise	Water	100			
11						
12						
13						
14						
15						
16						
17						
18						

FALSE ✕

OR(logical_expression1, [logical_expression2, ...])

EXAMPLE
OR(A1=1, A2=2)

ABOUT
Returns true if any of the provided arguments are logically true, and false if all of the provided arguments are logically false.

logical_expression1
An expression or reference to a cell containing an expression that represents some logical value, i.e. TRUE or FALSE, or an expression that can be coerced to a logical value.

logical_expression2... - [optional]
repeatable
More expressions that evaluate to logical values.

[Learn more](#)

Since the value in cell B2 is not "Water" the first condition is **FALSE**.

Since the value in cell C2 is less than 60 the second condition is also **FALSE**.

At least one condition need to be **TRUE** for the OR function to return **TRUE**.

Note: Text values needs to be in quotes: " "

The function can be repeated with the filling function for each row to perform the same check for each Pokemon:

	A	B	C	D	E
1	Name	Type 1	Defense	Water Type OR more than 60 Defense	
2	Bulbasaur	Grass	49	=OR(B2="Water", C2>60)	
3	Ivysaur	Grass	63	=OR(B3="Water", C3>60)	
4	Venusaur	Grass	83	=OR(B4="Water", C4>60)	
5	Charmander	Fire	43	=OR(B5="Water", C5>60)	
6	Charmeleon	Fire	58	=OR(B6="Water", C6>60)	
7	Charizard	Fire	78	=OR(B7="Water", C7>60)	
8	Squirtle	Water	65	=OR(B8="Water", C8>60)	
9	Wartortle	Water	80	=OR(B9="Water", C9>60)	
10	Blastoise	Water	100	=OR(B10="Water", C10>60)	
11					

Now, each row has a check for Water Type **or** Defense greater than 60:

	A	B	C	D	E
1	Name	Type 1	Defense	Water Type OR more than 60 Defense	
2	Bulbasaur	Grass	49	FALSE	
3	Ivysaur	Grass	63	TRUE	
4	Venusaur	Grass	83	TRUE	
5	Charmander	Fire	43	FALSE	
6	Charmeleon	Fire	58	FALSE	
7	Charizard	Fire	78	TRUE	
8	Squirtle	Water	65	TRUE	
9	Wartortle	Water	80	TRUE	
10	Blastoise	Water	100	TRUE	
11					

For example:

Ivysaur is **not** Water type, but it has **more** than 60 defense, so the function returns "TRUE". Charmeleon is **not** Water type, and has **less** than 60 defense, so the function returns "FALSE". Wartortle is **both** Water type and has **more** than 60 defense, so the function returns "TRUE".

Example OR Function (with IF)

Combining the OR function with an IF function lets you check **multiple** conditions for the IF function:

Note: The IF function lets you specify the return values.

The IF function is typed `=IF` and has 3 parts:

`=IF(logical_expression, value_if_true, value_if_false)`

The OR function takes the place of the `logical_expression` condition.

Here, the **IF** function returns "Yes" or "No".

Example **OR** function as the condition for **IF** function, step by step:

Select cell C2Type `=IF`Click the **IF** command

	A	B	C	D	E	F
1	Name	Type 1	Defense	Water Type OR more than 60 Defense		
2	Bulbasaur	Grass	49	=IF		
3	Ivysaur	Grass	63	IF		
4	Venusaur	Grass	83	Returns value depending on logical expression.		
5	Charmander	Fire	43	IFS		
6	Charmeleon	Fire	58	IFNA		
7	Charizard	Fire	78	SUMIF		
8	Squirtle	Water	65	MAXIFS		
9	Wartortle	Water	80	MINIFS		
10	Blastoise	Water	100	SUMIFS		
11				COUNTIF		
12				DATEDIF		
13				IFERROR		
14						

Type `OR`Click the **OR** command

	A	B	C	D	E	F
1	Name	Type 1	Defense	Water Type OR more than 60 Defense		
2	Bulbasaur	Grass	49	=IF(OR		
3	Ivysaur	Grass	63	OR		
4	Venusaur	Grass	83	Logical or operator.		
5	Charmander	Fire	43			
6	Charmeleon	Fire	58			
7	Charizard	Fire	78			
8	Squirtle	Water	65			
9	Wartortle	Water	80			
10	Blastoise	Water	100			
11						

Specify the first condition B2="Water"Type , Specify the second condition C2>60Type) , Specify the value "Yes" for when either or both conditions are **TRUE**Type , Specify the value "No" for when both conditions are **FALSE**Type) and hit enter

	A	B	C	D	E	F
1	Name	Type 1	Defense	Type OR more than 60 Defense		
2	Bulbasaur	Grass	49	=IF(OR(B2="Water", C2>60), "Yes", "No")		
3	Ivysaur	Grass	63	IF(logical_expression, value_if_true, ^ X		
4	Venusaur	Grass	83	value_if_false)		
5	Charmander	Fire	43	EXAMPLE		
6	Charmeleon	Fire	58	IF(A2 = "foo", "A2 is foo",		
7	Charizard	Fire	78	"A2 is not foo")		
8	Squirtle	Water	65	ABOUT		
9	Wartortle	Water	80	Returns one value if a logical expression is TRUE and another if		
10	Blastoise	Water	100	it is FALSE.		
11						
12				logical_expression		
13				An expression or reference to a cell containing an expression		
14				that represents some logical value, i.e. TRUE or FALSE.		
15				value_if_true		
16				The value the function returns if logical_expression is TRUE.		
17				value_if_false		
18				The value the function returns if logical_expression is FALSE.		
19				Learn more		

The function can be repeated with the filling function for each row to perform the same check for each Pokemon:

	A	B	C	D	E
1	Name	Type 1	Defense	Water Type OR more than 60 Defense	
2	Bulbasaur	Grass	49	=IF(OR(B2="Water", C2>60), "Yes", "No")	
3	Ivysaur	Grass	63	=IF(OR(B3="Water", C3>60), "Yes", "No")	
4	Venusaur	Grass	83	=IF(OR(B4="Water", C4>60), "Yes", "No")	
5	Charmander	Fire	43	=IF(OR(B5="Water", C5>60), "Yes", "No")	
6	Charmeleon	Fire	58	=IF(OR(B6="Water", C6>60), "Yes", "No")	
7	Charizard	Fire	78	=IF(OR(B7="Water", C7>60), "Yes", "No")	
8	Squirtle	Water	65	=IF(OR(B8="Water", C8>60), "Yes", "No")	
9	Wartortle	Water	80	=IF(OR(B9="Water", C9>60), "Yes", "No")	
10	Blastoise	Water	100	=IF(OR(B10="Water", C10>60), "Yes", "No")	
11					

Now, each row has a check for Water Type **or** Defense greater than 60:

	A	B	C	D	E
1	Name	Type 1	Defense	Water Type OR more than 60 Defense	
2	Bulbasaur	Grass	49	No	
3	Ivysaur	Grass	63	Yes	
4	Venusaur	Grass	83	Yes	
5	Charmander	Fire	43	No	
6	Charmeleon	Fire	58	No	
7	Charizard	Fire	78	Yes	
8	Squirtle	Water	65	Yes	
9	Wartortle	Water	80	Yes	
10	Blastoise	Water	100	Yes	
11					

For example:

Ivysaur is **not** Water type, but it has **more** than 60 defense, so the function returns "Yes". Charmeleon is **not** Water type, and has **less** than 60 defense, so the function returns "No". Wartortle is **both** Water type and has **more** than 60 defense, so the function returns "Yes"

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