

How can I use a MULTIPLY IF function in Google Sheets?

Authored by
stats writer

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The MULTIPLY IF function in Google Sheets allows users to multiply values based on specific conditions. It combines the IF and MULTIPLY functions, enabling users to set conditions and perform multiplication calculations simultaneously. This function is useful for quickly and accurately calculating multiple values based on varying criteria. By using the MULTIPLY IF function, users can efficiently perform complex calculations without the need for multiple formulas or manual calculations. This feature is particularly helpful for organizing and analyzing large sets of data in Google Sheets.

Use a MULTIPLY IF Function in Google Sheets

You can use the following basic formula to create a MULTIPLY IF function in Google Sheets:

```
=ARRAYFORMULA(PRODUCT(IF(A2:A11="string",B2:B11,""))))
```

This formula multiplies all of the values together in B2:B11 where the corresponding cell in the range A2:A11 is equal to "string".

The following example shows how to use this formula in practice.

Example: MULTIPLY IF Function in Google Sheets

Suppose we have the following dataset that shows the total points scored by basketball players on various teams:

	A	B	C	D
1	team	points		
2	Mavs	7		
3	Nets	12		
4	Rockets	10		
5	Spurs	14		
6	Mavs	20		
7	Mavs	5		
8	Magic	8		
9	Heat	11		
10	Spurs	19		
11	Rockets	15		
12				
13				
14				
15				
16				
17				
18				
19				

We can use the following formula to multiply together each value in the points column if the corresponding value in the team column is equal to "Mavs":

```
=ARRAYFORMULA(PRODUCT(IF(A2:A11="Mavs",B2:B11,"")))
```

The following screenshot shows how to use this formula:

D2 *fx* =ARRAYFORMULA(PRODUCT(IF(A2:A11="Mavs",B2:B11,"")))

	A	B	C	D	E
1	team	points			
2	Mavs	7		700	
3	Nets	12			
4	Rockets	10			
5	Spurs	14			
6	Mavs	20			
7	Mavs	5			
8	Magic	8			
9	Heat	11			
10	Spurs	19			
11	Rockets	15			
12					
13					
14					
15					
16					
17					
18					
19					

The product of the values in the points column for the rows where team is equal to "Mavs" is 700.

We can verify that this is correct by manually multiplying each of the points values together for the Mavs:

Product of points: $7 * 20 * 5 = 700$

This matches the value that we calculated using the formula.

Note: You can find the complete documentation for the PRODUCT function in Google Sheets .

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