

# How to use a MULTIPLY IF Function in Excel

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## RECOMMENDED CITATION

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The MULTIPLY IF Function in Excel multiplies cell values based on certain criteria. This function takes three arguments, a range of cells, criteria, and criteria\_range. The range of cells are the cells that are multiplied, the criteria is the condition that will be tested, and the criteria\_range is the cells that are being tested against the criteria. The function then multiplies the range of cells together if the criteria is met. This is a useful function for quickly and easily multiplying a range of cells together based on certain criteria.

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

**=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 Excel**

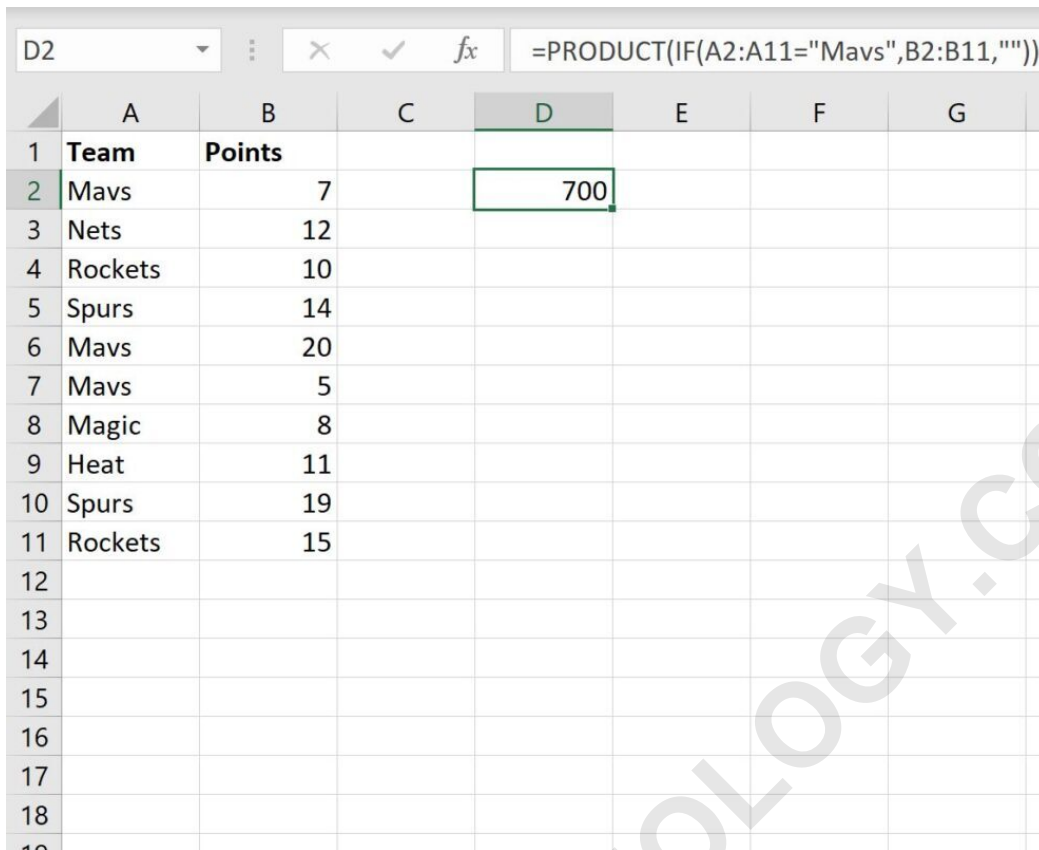
Suppose we have the following dataset that shows the total points scored by basketball players on various teams:

	A	B	C	D	E	F
1	<b>Team</b>	<b>Points</b>				
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":

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

The following screenshot shows how to use this formula:



The image shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G
1	<b>Team</b>	<b>Points</b>					
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 formula bar shows the formula: `=PRODUCT(IF(A2:A11="Mavs",B2:B11,""))`

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 Excel .