

How can I use an IF function in Google Sheets with a range of values?

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An IF function in Google Sheets allows you to set conditions that determine whether a specific action or calculation should be taken based on a given set of criteria. This function can be used with a range of values by specifying the range in the IF statement, allowing you to apply the same condition to multiple cells at once. By using this functionality, you can efficiently evaluate and manipulate large sets of data in your Google Sheets spreadsheet.

Google Sheets: Use an IF Function with Range of Values

You can use the following formulas to create an IF function with a range of values in Google Sheets:

Method 1: Create IF Function with Range of Cells

=IF(COUNTIF(A2:A11,"Pacers")>0, "Exists", "Does Not Exist")

For this formula, if "Pacers" exists anywhere in the range A2:A11 then the function returns "Exists." Otherwise it returns Does Not Exist."

Method 2: Create IF Function with Range of Numeric Values

=IF(((B2>=95)*(B2<=105))=1, "Yes", "No")

For this formula, if the value in cell B2 is between 95

and 105, then the function returns "Yes." Otherwise it returns "No."

The following examples show how to use each formula in practice with the following dataset in Google Sheets:

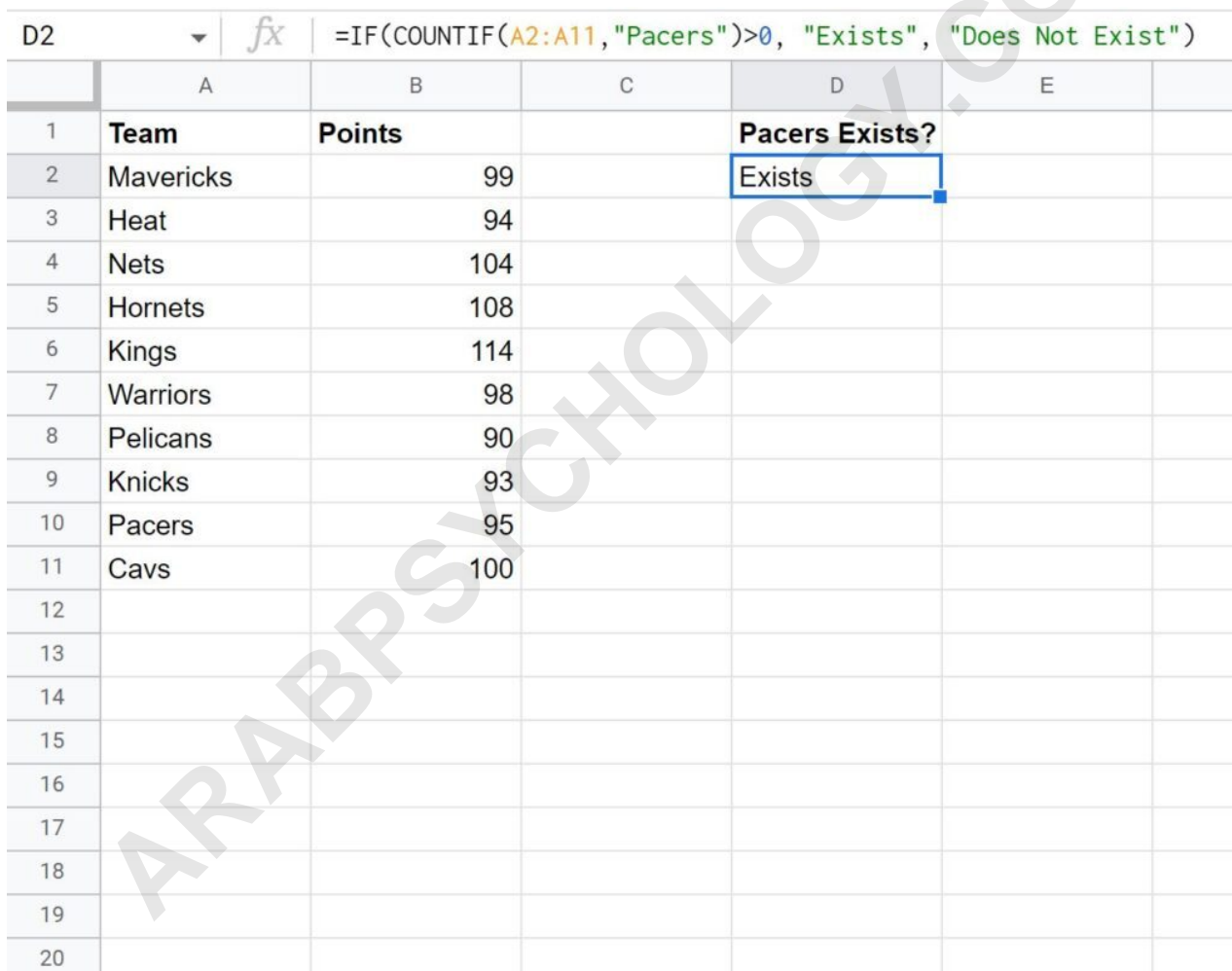
	A	B	C	D	E
1	Team	Points			
2	Mavericks	99			
3	Heat	94			
4	Nets	104			
5	Hornets	108			
6	Kings	114			
7	Warriors	98			
8	Pelicans	90			
9	Knicks	93			
10	Pacers	95			
11	Cavs	100			
12					
13					
14					
15					
16					
17					
18					
19					
20					

Example 1: Create IF Function with Range of Cells

We can type the following formula into cell D2 to return "Exists" if the team name "Pacers" exists in the range A2:A11 or to return Does Not Exist" if the team name does not exist in the range:

=IF(COUNTIF(A2:A11,"Pacers")>0, "Exists", "Does Not Exist")

The following screenshot shows how to use this formula in practice:



The screenshot shows a Google Sheet with the following data:

	A	B	C	D	E
1	Team	Points		Pacers Exists?	
2	Mavericks	99		Exists	
3	Heat	94			
4	Nets	104			
5	Hornets	108			
6	Kings	114			
7	Warriors	98			
8	Pelicans	90			
9	Knicks	93			
10	Pacers	95			
11	Cavs	100			
12					
13					
14					
15					
16					
17					
18					
19					
20					

The formula bar shows: `=IF(COUNTIF(A2:A11,"Pacers")>0, "Exists", "Does Not Exist")`

The formula returns "Exists" since the string "Pacers" occurs at least once in the range A2:A11.

Example 2: Create IF Function with Range of Numeric Values

=IF(((B2>=95)*(B2<=105))=1, "Yes", "No")

We can then drag and fill this formula down to each remaining cell in column D:

	A	B	C	D
D2				=IF(((B2>=95)*(B2<=105))=1, "Yes", "No")
1	Team	Points		Points Between 95 and 105?
2	Mavericks	99		Yes
3	Heat	94		No
4	Nets	104		Yes
5	Hornets	108		No
6	Kings	114		No
7	Warriors	98		Yes
8	Pelicans	90		No
9	Knicks	93		No
10	Pacers	95		Yes
11	Cavs	100		Yes
12				
13				
14				
15				
16				
17				
18				
19				

Here's what the formula does for each row in column D:

If the value in the Points column is between 95 and 105, return Yes. If the value in the Points column is *not*

between 95 and 105, return No.

Also note that you can change the last two arguments in the IF function to something other than "Yes" or "No" if you'd like to return different output values.

Note: The multiplication symbol (*) in the IF function tells Google Sheets that both conditions must be met in order to return "Yes."

The following tutorials explain how to perform other common tasks in Google Sheets: