

How do I use COUNTIF in Excel to compare a number to a range?

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The COUNTIF function in Excel can be used to compare a number to a range of cells. It counts the number of cells in the range that meet a specified criteria. For example, you could use COUNTIF to compare a number to a range of cells and return the number of cells that are greater than the number. The syntax for COUNTIF is COUNTIF(range, criteria) where range is the range of cells to be compared and criteria is the condition to be met.

You can use the following formula to count the number of cells in Excel that are greater than but less than some number:

=COUNTIFS(B:B,">15",B:B,"<25")

This particular formula counts the number of cells in column B where the value is greater than 15 but less than 25.

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

Example: COUNTIF Greater Than But Less Than

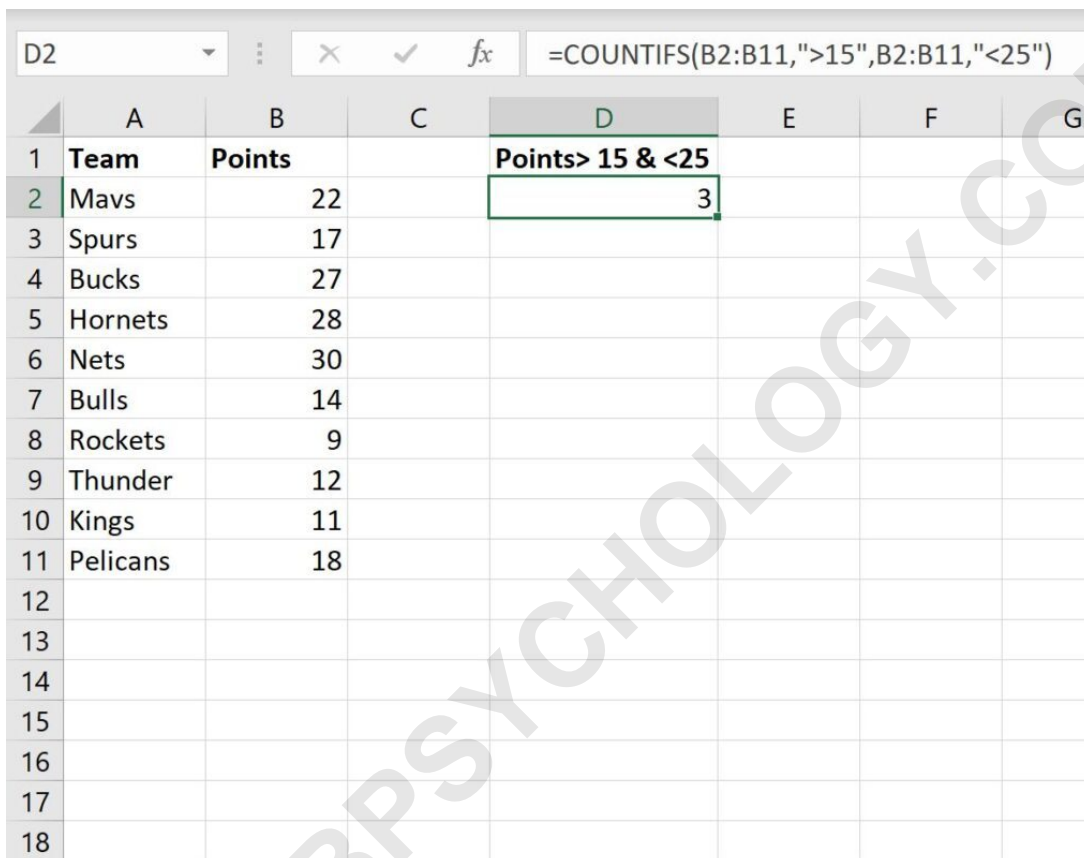
Suppose we have the following dataset in Excel that shows the number of points scored by basketball players on various teams:

	A	B	C	D	E	F
1	Team	Points				
2	Mavs	22				
3	Spurs	17				
4	Bucks	27				
5	Hornets	28				
6	Nets	30				
7	Bulls	14				
8	Rockets	9				
9	Thunder	12				
10	Kings	11				
11	Pelicans	18				
12						
13						
14						
15						
16						
17						
18						

We can use the following formula to count the number of cells in the column that have a value greater than 15 but less than 25:

=COUNTIFS(B2:B11,">15",B2:B11,"<25")

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



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G
1	Team	Points		Points > 15 & < 25			
2	Mavs	22		3			
3	Spurs	17					
4	Bucks	27					
5	Hornets	28					
6	Nets	30					
7	Bulls	14					
8	Rockets	9					
9	Thunder	12					
10	Kings	11					
11	Pelicans	18					
12							
13							
14							
15							
16							
17							
18							

The formula bar shows the formula: `=COUNTIFS(B2:B11,">15",B2:B11,"<25")`

We can see that a total of **3** cells in the **Points** column have a value greater than 15 but less than 25.

We can verify this is correct by manually identifying each of these cells in the data:

	A	B	C	D	E	F
1	Team	Points		Points > 15 & < 25		
2	Mavs	22		3		
3	Spurs	17				
4	Bucks	27				
5	Hornets	28				
6	Nets	30				
7	Bulls	14				
8	Rockets	9				
9	Thunder	12				
10	Kings	11				
11	Pelicans	18				
12						
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Note: You can find the complete documentation for the **COUNTIFS** function in Excel .