

How do I calculate the median in an Excel pivot table?

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RECOMMENDED CITATION

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=101887>

To calculate the median in an Excel pivot table, first highlight the numbers in the field you are interested in and then click the down arrow next to the field to open the 'Value Field Settings' Menu. Select 'Median' from the 'Show Values As' drop down list. This will display the median for the field in the pivot table.

Often you may want to calculate the median value in an Excel pivot table.

Unfortunately Excel doesn't have a built-in feature to calculate the median, but you can use a MEDIAN IF function as a workaround.

The following step-by-step example shows how to do so.

Step 1: Enter the Data

First, let's enter the following data that shows the points scored by basketball players on various teams:

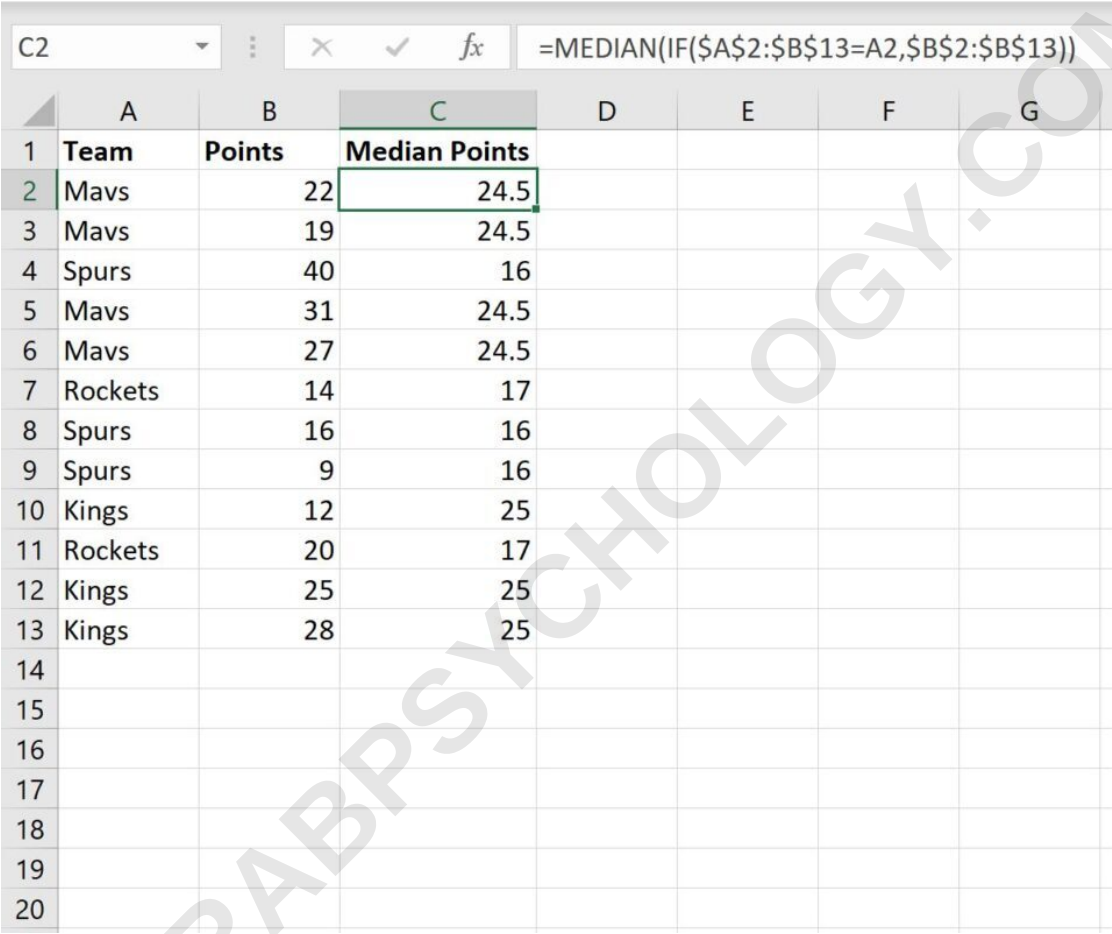
	A	B	C	D	E	F
1	Team	Points				
2	Mavs	22				
3	Mavs	19				
4	Spurs	40				
5	Mavs	31				
6	Mavs	27				
7	Rockets	14				
8	Spurs	16				
9	Spurs	9				
10	Kings	12				
11	Rockets	20				
12	Kings	25				
13	Kings	28				
14						
15						
16						
17						
18						
19						
20						

Step 2: Calculate the Median Value by Group

Next, we can use the following formula to calculate the median points value for each team:

=MEDIAN(IF(\$A\$2:\$B\$13=A2,\$B\$2:\$B\$13))

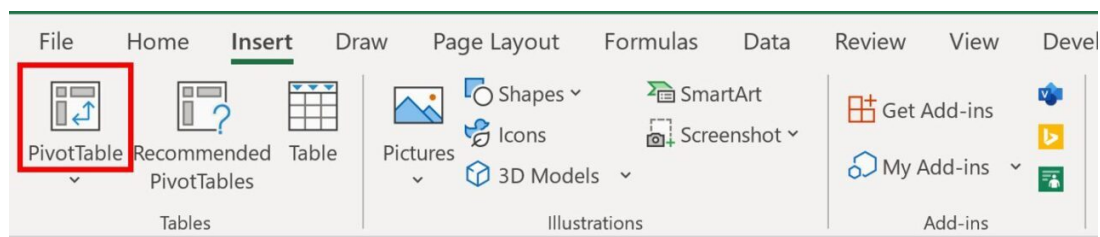
The following screenshot shows how to use this formula in practice:



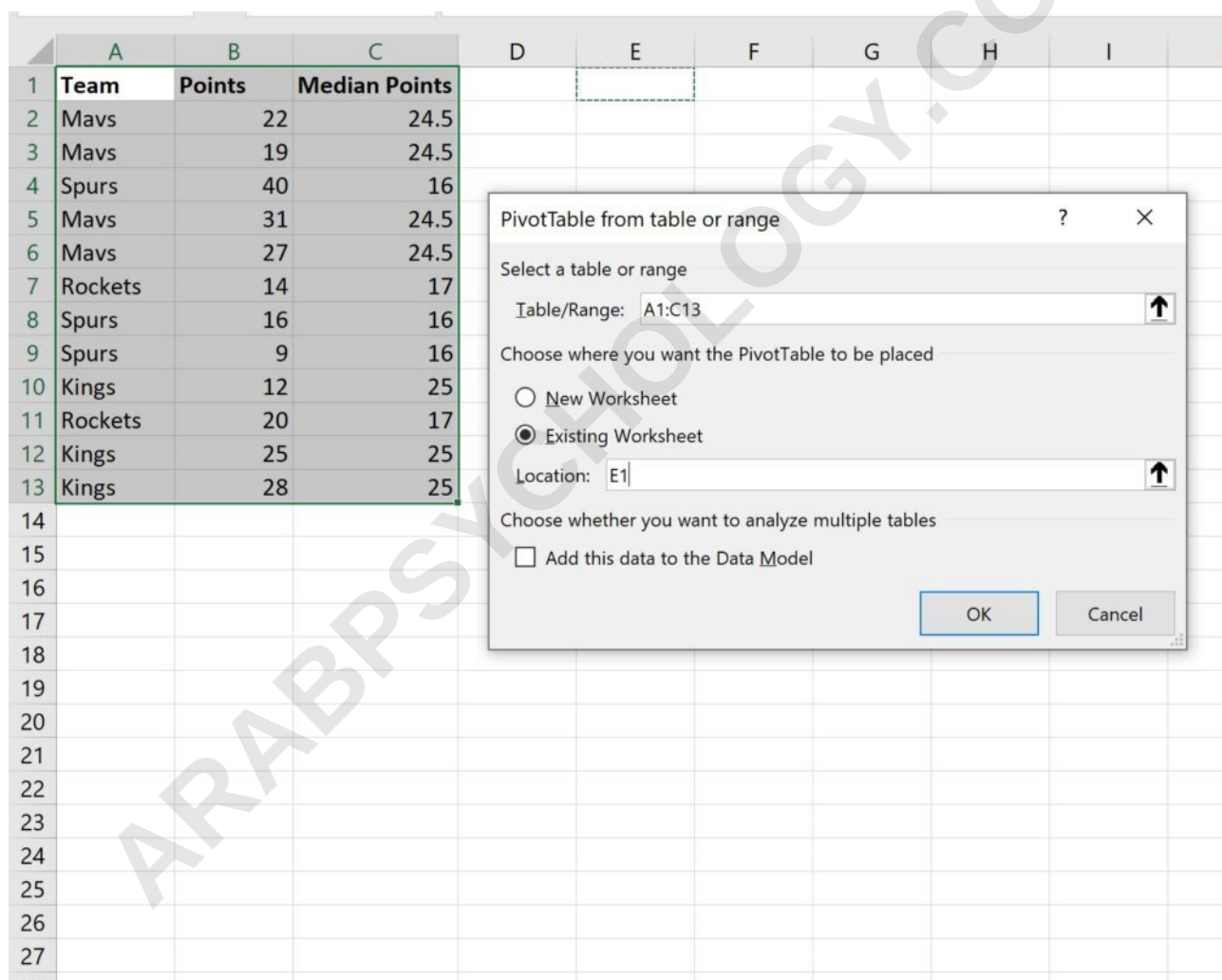
	A	B	C	D	E	F	G
1	Team	Points	Median Points				
2	Mavs	22	24.5				
3	Mavs	19	24.5				
4	Spurs	40	16				
5	Mavs	31	24.5				
6	Mavs	27	24.5				
7	Rockets	14	17				
8	Spurs	16	16				
9	Spurs	9	16				
10	Kings	12	25				
11	Rockets	20	17				
12	Kings	25	25				
13	Kings	28	25				
14							
15							
16							
17							
18							
19							
20							

Step 3: Create the Pivot Table

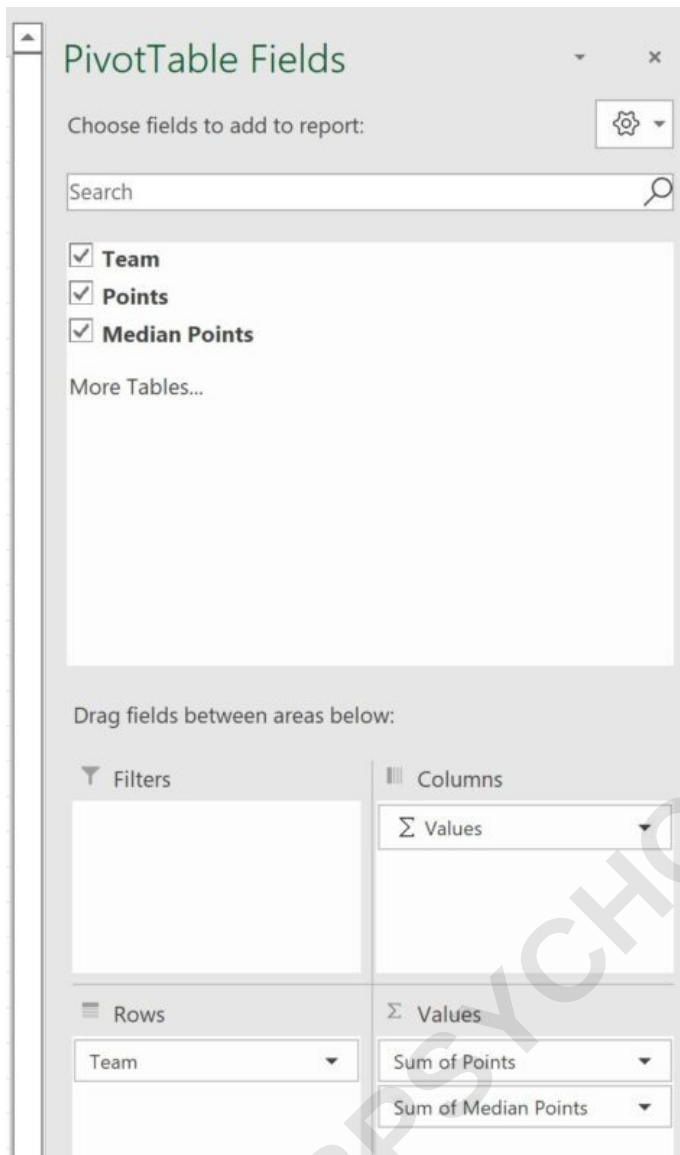
To create a pivot table, click the **Insert** tab along the top ribbon and then click the **PivotTable** icon:



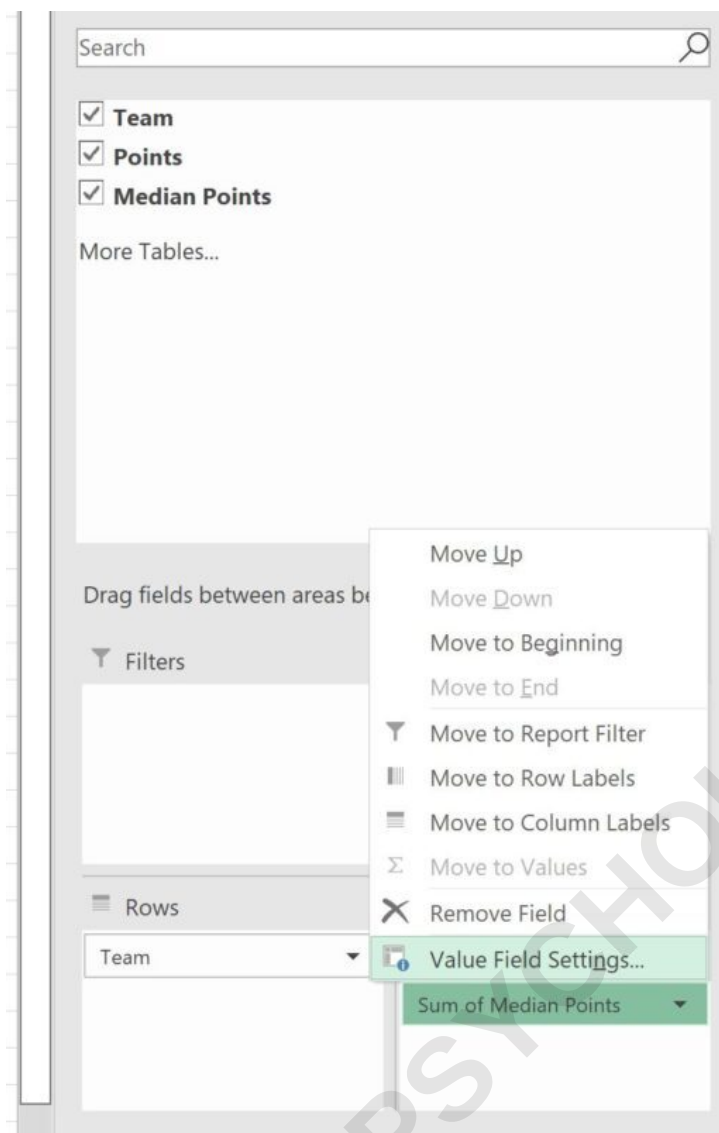
In the new window that appears, choose **A1:C13** as the range and choose to place the pivot table in cell **E1** of the existing worksheet:



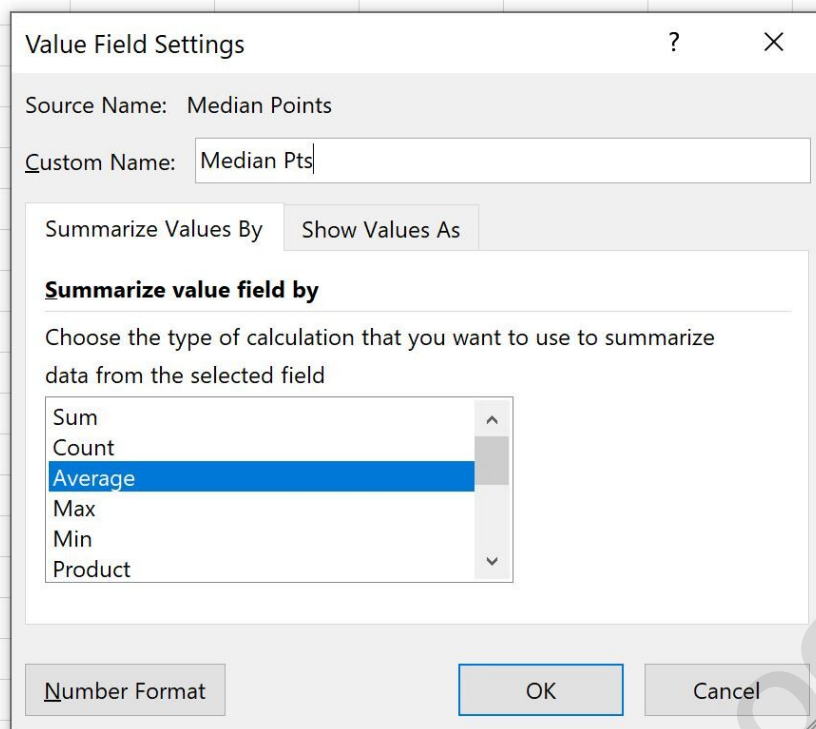
Once you click **OK**, a new **PivotTable Fields** panel will appear on the right side of the screen.



Next, click the **Sum of Median Points** dropdown arrow and then click **Value Field Settings**:



In the new window that appears, change the Custom Name to **Median Pts** and then click **Average** as the summarize value:



Once you click **OK**, the median points value for each team will be added to the pivot table:

	A	B	C	D	E	F	G
1	Team	Points	Median Points		Row Labels	Sum of Points	Median Pts
2	Mavs	22	24.5		Kings	65	25
3	Mavs	19	24.5		Mavs	99	24.5
4	Spurs	40	16		Rockets	34	17
5	Mavs	31	24.5		Spurs	65	16
6	Mavs	27	24.5		Grand Total	263	21.25
7	Rockets	14	17				
8	Spurs	16	16				
9	Spurs	9	16				
10	Kings	12	25				
11	Rockets	20	17				
12	Kings	25	25				
13	Kings	28	25				
14							
15							
16							
17							
18							
19							
20							
21							
22							

The pivot table now contains the following information:

Each unique team name

The sum of points scored by each team

The median points scored by each team