

How do I calculate the median in a pivot table using Excel?

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=160445>

In Excel, a pivot table is a powerful tool that allows users to summarize and analyze large sets of data. One useful feature of pivot tables is the ability to calculate the median for a particular set of data. To do this, simply select the desired data set, click on the "PivotTable" icon, and then select "Median" from the "Values" section. This will generate a new column in the pivot table with the calculated median for each category or group. The median is a useful measure of central tendency that represents the middle value of a data set and is not affected by extreme values. By using pivot tables and the median function in Excel, users can quickly and accurately analyze their data and gain valuable insights.

Excel: Calculate the Median in a 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:

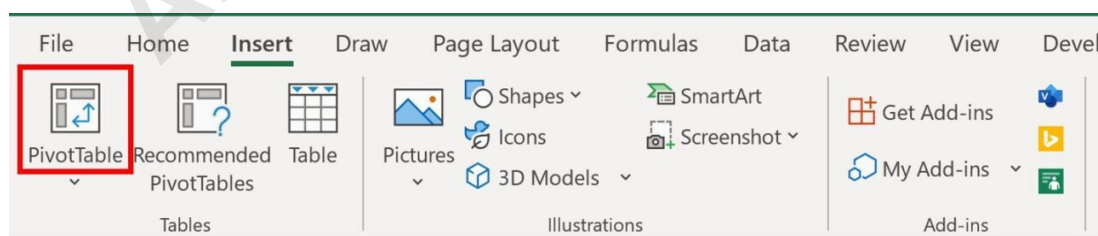
=MEDIAN(IF(\$A\$2:\$B\$13=A2,\$B\$2:\$B\$13))

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:

The screenshot shows an Excel worksheet with a PivotTable in columns A, B, and C. The PivotTable has three columns: Team, Points, and Median Points. The data is as follows:

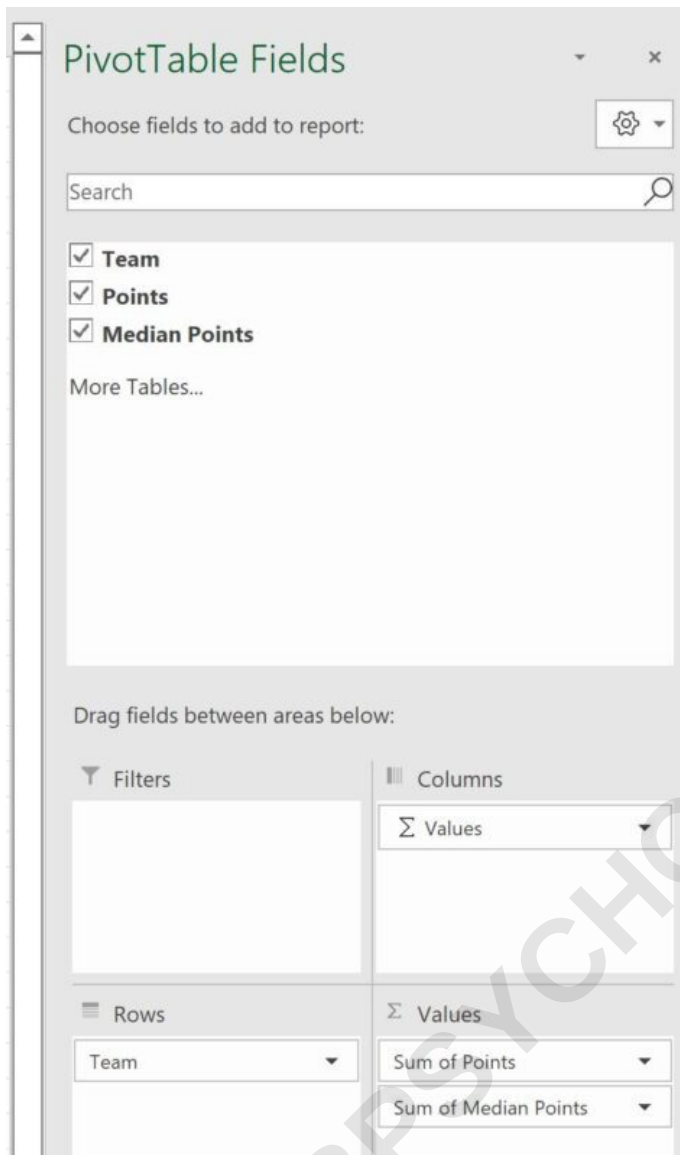
Team	Points	Median Points
Mavs	22	24.5
Mavs	19	24.5
Spurs	40	16
Mavs	31	24.5
Mavs	27	24.5
Rockets	14	17
Spurs	16	16
Spurs	9	16
Kings	12	25
Rockets	20	17
Kings	25	25
Kings	28	25

The 'PivotTable from table or range' dialog box is open, showing the following settings:

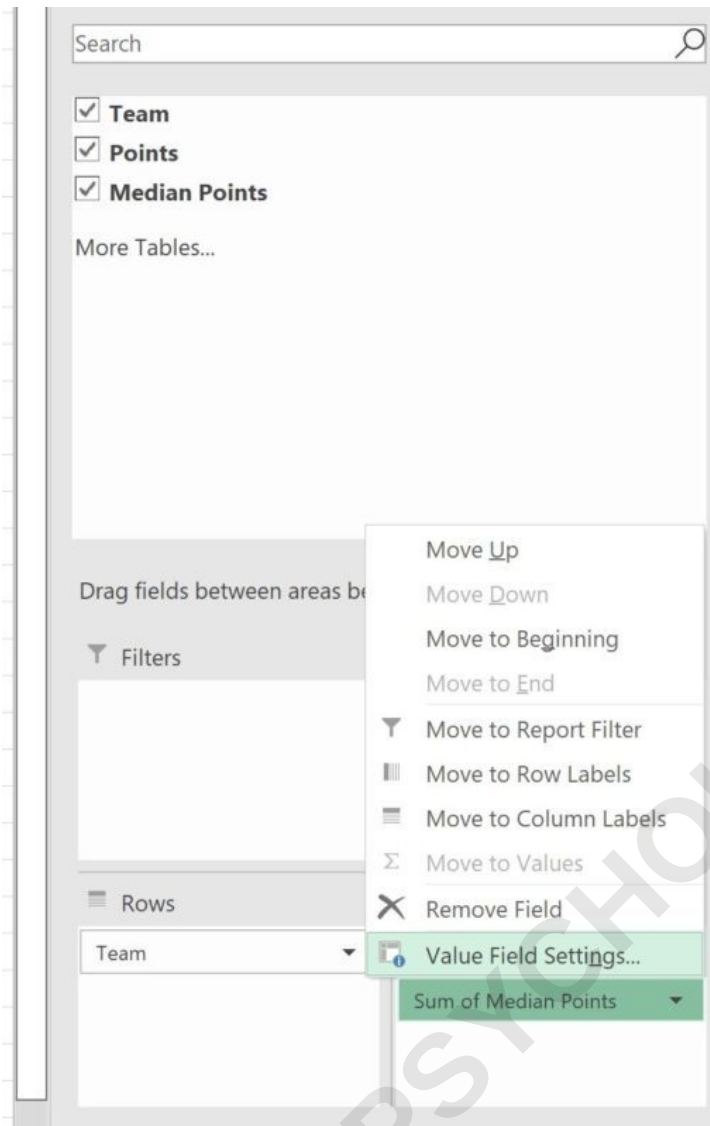
- Table/Range: A1:C13
- Choose where you want the PivotTable to be placed:
 - ☐ New Worksheet
 - ☒ Existing Worksheet
- Location: E1
- Choose whether you want to analyze multiple tables:
 - ☐ Add this data to the Data Model

The dialog box has 'OK' and 'Cancel' buttons at the bottom right.

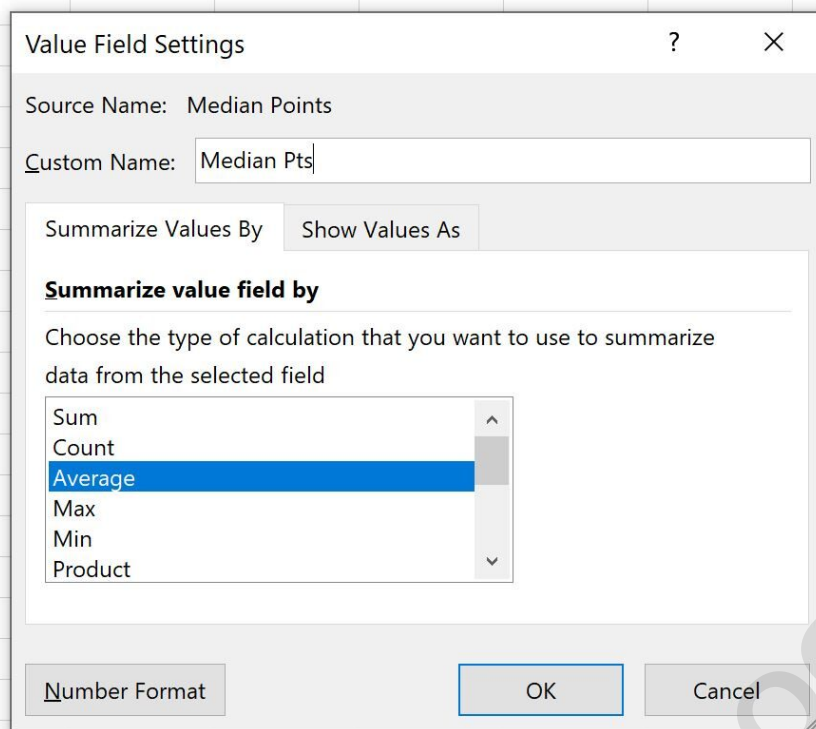
Once you click OK, a new PivotTable Fields panel will appear on the right side of the screen.



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

Additional Resources

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