How can I calculate the median value in Excel while ignoring zero values?

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The process of calculating the median value in Excel while ignoring zero values involves using a specific formula to exclude the zero values from the calculation. This can be done by using the "MEDIAN" function and specifying the range of cells that contain the data, while also using the "IF" function to exclude the cells with zero values. This allows for a more accurate calculation of the median value, as it eliminates any bias caused by the presence of zero values. By following this method, the median value can be easily determined in Excel, providing a reliable measure of the central tendency of the data set.

Excel: Calculate Median Value and Ignore Zeros

You can use the following formula in Excel to calculate the median value of a particular range and ignore any values equal to zero:

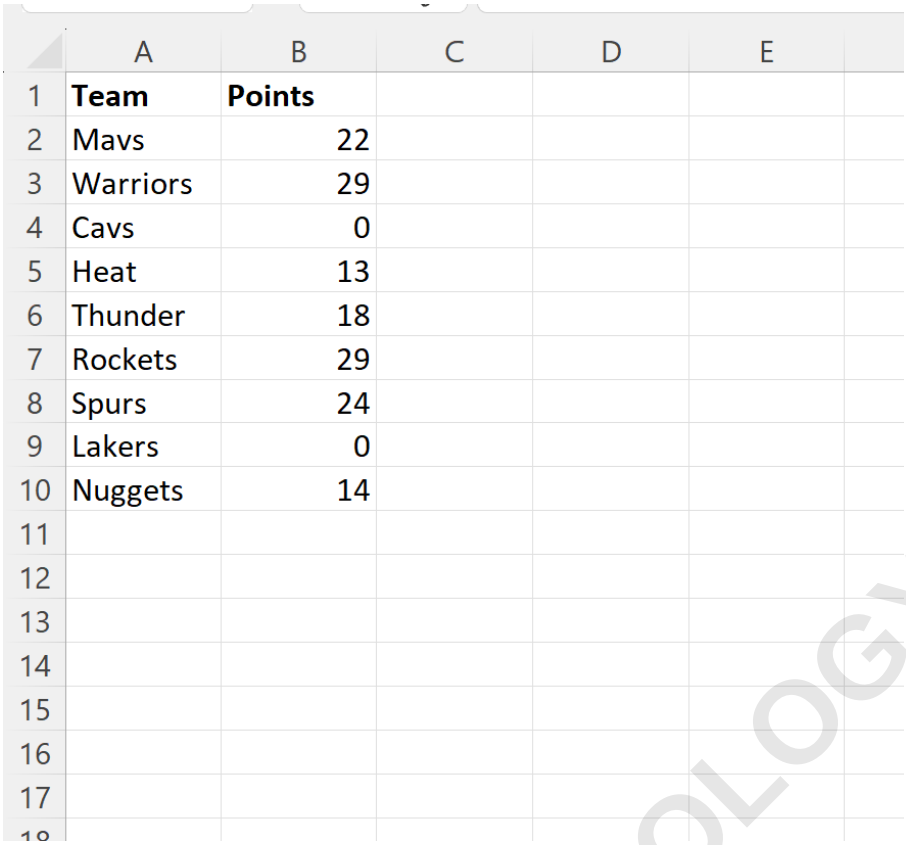
=MEDIAN(IF(B2:B10<>0,B2:B10))

This particular example will calculate the median value in the range B2:B10 and ignore any values equal to zero when calculating the median.

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

Example: Calculate Median Value and Ignore Zeros in Excel

Suppose we have the following dataset in Excel that contains information about various basketball players:

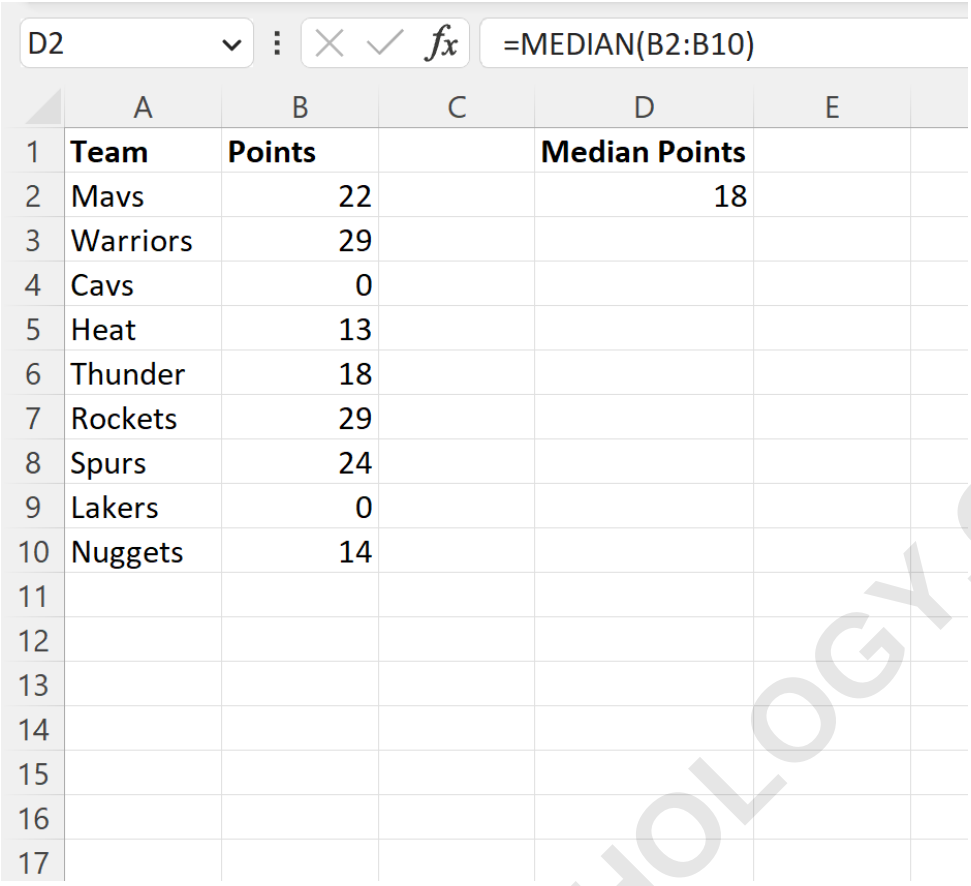


	A	B	C	D	E
1	**Team**	**Points**			
2	Mavs	22			
3	Warriors	29			
4	Cavs	0			
5	Heat	13			
6	Thunder	18			
7	Rockets	29			
8	Spurs	24			
9	Lakers	0			
10	Nuggets	14			
11					
12					
13					
14					
15					
16					
17					

Suppose we use the following formula to calculate the median value in the points column:

=MEDIAN(B2:B10)

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



	A	B	C	D	E
1	**Team**	**Points**		**Median Points**	
2	Mavs	22		18	
3	Warriors	29			
4	Cavs	0			
5	Heat	13			
6	Thunder	18			
7	Rockets	29			
8	Spurs	24			
9	Lakers	0			
10	Nuggets	14			
11					
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By default, Excel considers every value in the range when calculating the median.

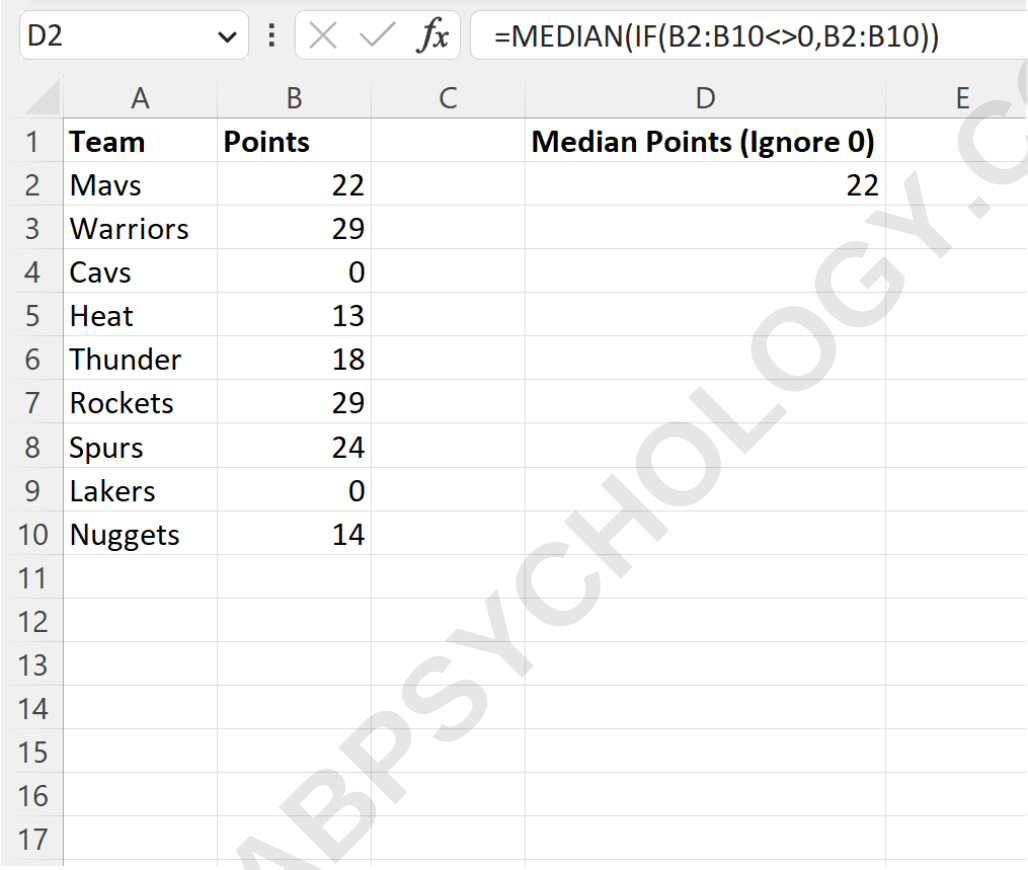
Thus, the MEDIAN formula arranged each value in the points column from smallest to largest and chose the middle value as the median:

Points values: 0, 0, 13, 14, 18, 22, 24, 28, 29

However, we can use the following formula instead to calculate the median value in the points column and ignore all values equal to zero:

=MEDIAN(IF(B2:B10<>0,B2:B10))

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



D2 | =MEDIAN(IF(B2:B10<>0,B2:B10))

	A	B	C	D	E
1	**Team**	**Points**		**Median Points (Ignore 0)**	
2	Mavs	22		22	
3	Warriors	29			
4	Cavs	0			
5	Heat	13			
6	Thunder	18			
7	Rockets	29			
8	Spurs	24			
9	Lakers	0			
10	Nuggets	14			
11					
12					
13					
14					
15					
16					
17					

This particular formula calculated the median value in the points column and ignored all points values equal to zero.

Thus, the MEDIAN formula arranged each value in the points column from smallest to largest (excluding the

zeros) and chose the middle value as the median:

Points values: 13, 14, 18, 22, 24, 28, 29

When ignoring values equal to zero, the median value turns out to be 22.

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