

How can I use OFFSET and MATCH together in Excel?

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OFFSET and MATCH are two powerful functions in Excel that can be used together to dynamically retrieve data from a range of cells. The OFFSET function allows you to specify a starting point and then move a certain number of rows and columns to retrieve data from a specific cell. On the other hand, MATCH function helps to find the position of a specific value in a range of cells. By combining these two functions, you can create a formula that can automatically adjust to changes in your data and retrieve the desired information. This can be especially useful when dealing with large datasets or when you need to extract data from a specific location that may change. Overall, by using OFFSET and MATCH together, you can efficiently and accurately retrieve data in Excel.

Use OFFSET and MATCH Together in Excel

You can use the following syntax with the OFFSET and MATCH functions in Excel to look up a specific value in a range and return the corresponding value in a different column:

=OFFSET(B1, MATCH(F1, A1:A11, 0)-1, 0, 1, 1)

This particular formula will look up the value in cell F1 within the range A1:A11 and then return the corresponding value from column B.

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

Example: How to Use OFFSET and MATCH in Excel

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

	A	B	C	D	E	F
1	Team	Points	Assists			
2	Mavs	22	4			
3	Spurs	19	9			
4	Rockets	14	13			
5	Kings	20	8			
6	Warriors	30	5			
7	Nets	34	4			
8	Lakers	29	7			
9	Thunder	25	10			
10	Blazers	28	12			
11	Jazz	15	11			
12						
13						
14						
15						
16						

Now suppose we would like to look up the team name "Thunder" in the dataset and return their points value.

To do so, we can type the following formula into cell F2:

=OFFSET(B1, MATCH(F1, A1:A11, 0)-1, 0, 1, 1)

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

F2 ✕ ✓ *fx* =OFFSET(B1, MATCH(F1, A1:A11, 0)-1, 0, 1, 1)

	A	B	C	D	E	F	G
1	Team	Points	Assists		Team	Thunder	
2	Mavs	22	4		Points	25	
3	Spurs	19	9				
4	Rockets	14	13				
5	Kings	20	8				
6	Warriors	30	5				
7	Nets	34	4				
8	Lakers	29	7				
9	Thunder	25	10				
10	Blazers	28	12				
11	Jazz	15	11				
12							
13							
14							
15							
16							

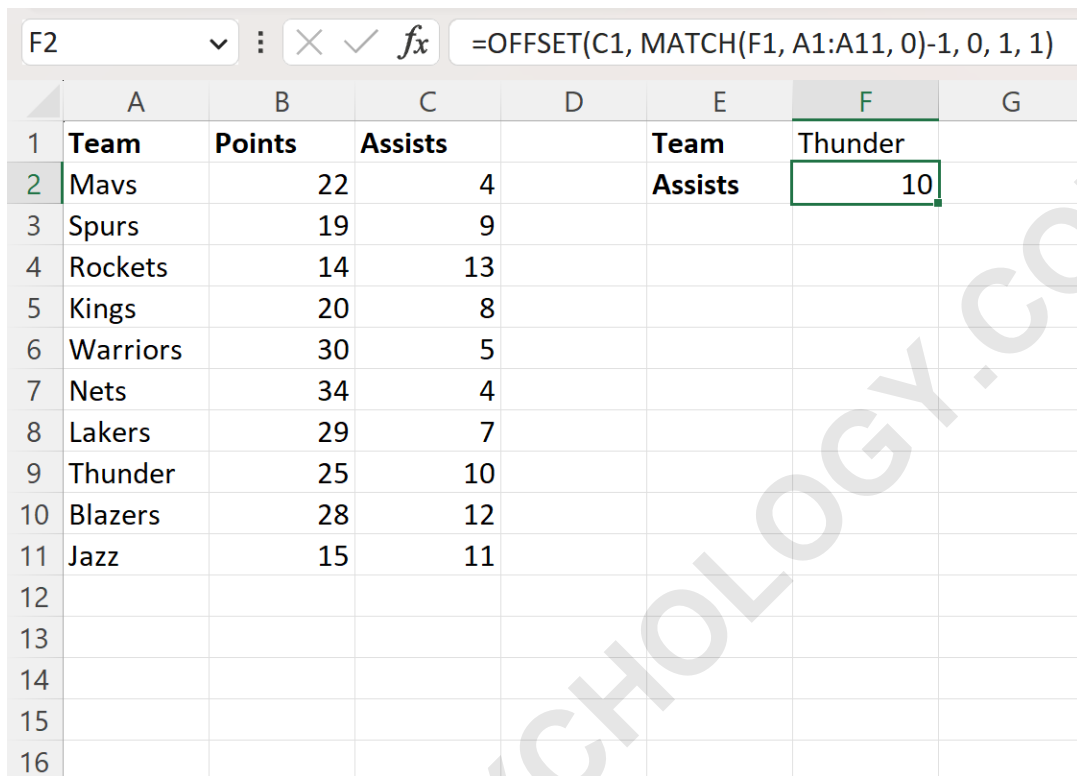
The formula returns a value of 25, which is the points value that corresponds to the "Thunder" team name.

Note that if you'd like to return the value from a different column, you simply need to change B1 to a different column.

For example, you can instead use C1 to return the value in the assists column that corresponds to the "Thunder" team name:

=OFFSET(C1, MATCH(F1, A1:A11, 0)-1, 0, 1, 1)

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	Assists		Team	Thunder	
2	Mavs	22	4		Assists	10	
3	Spurs	19	9				
4	Rockets	14	13				
5	Kings	20	8				
6	Warriors	30	5				
7	Nets	34	4				
8	Lakers	29	7				
9	Thunder	25	10				
10	Blazers	28	12				
11	Jazz	15	11				
12							
13							
14							
15							
16							

The formula returns a value of 10, which is the assists value that corresponds to the "Thunder" team name.

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