

How do you Use SMALL IF Function in Excel (With Examples)

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November 29, 2025

RECOMMENDED CITATION

stats writer (2025). *How do you Use SMALL IF Function in Excel (With Examples)*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=101587>

The IF function in Excel is a powerful tool that allows you to make logical comparisons between different values and then return a result based on these comparisons. The SMALL IF function is a variation of the IF function which returns the smallest value in a given array that meets the criteria defined by the user. This function can be used to quickly identify the smallest value from a range of data, or the smallest value that meets a specific criteria. For example, if you wanted to identify the smallest value in a range of numbers that were greater than 10, you could use the SMALL IF function to quickly get the answer.

You can use the following formulas to perform a SMALL IF function in Excel:

Formula 1: SMALL IF with One Criteria

```
=SMALL(IF(A2:A16="A",C2:C16),2)
```

This formula finds the 2nd smallest value in C2:C16 where the value in A2:A16 is equal to "A".

Formula 2: SMALL IF with Multiple Criteria

```
=SMALL(IF((A2:A16="A")*(B2:B16="Forward"),C2:C16),2)
```

This formula finds the 2nd smallest value in C2:C16 where the value in A2:A16 is equal to "A" and the value in B2:B16 is equal to "Forward".

The following examples show how to use each formula in practice with the following dataset in Excel:

	A	B	C	D	E	F
1	Team	Position	Points			
2	A	Guard	3			
3	A	Forward	5			
4	A	Guard	5			
5	A	Guard	7			
6	A	Forward	10			
7	A	Forward	13			
8	A	Forward	14			
9	A	Guard	15			
10	B	Forward	19			
11	B	Guard	22			
12	B	Guard	24			
13	B	Forward	25			
14	B	Guard	25			
15	B	Guard	29			
16	B	Forward	31			
17						
18						
19						
20						
21						
22						

Example 1: SMALL IF with One Criteria

We can use the following formula to find the 2nd smallest value in C2:C16 where the value in A2:A16 is equal to "A":

=SMALL(IF(A2:A16="A",C2:C16),2)

The following screenshot shows how to use this formula:

	A	B	C	D	E	F	G
1	Team	Position	Points		2nd smallest points on team A		
2	A	Guard	3		5		
3	A	Forward	5				
4	A	Guard	5				
5	A	Guard	7				
6	A	Forward	10				
7	A	Forward	13				
8	A	Forward	14				
9	A	Guard	15				
10	B	Forward	19				
11	B	Guard	22				
12	B	Guard	24				
13	B	Forward	25				
14	B	Guard	25				
15	B	Guard	29				
16	B	Forward	31				
17							
18							
19							
20							
21							
22							

This tells us that the 2nd smallest points value among all players on team A is **5**.

Example 2: SMALL IF with Multiple Criteria

We can use the following formula to find the 2nd smallest value in C2:C16 where the value in A2:A16 is equal to "A" **and** the value in B2:B16 is equal to "Forward":

=SMALL(IF((A2:A16="A")*(B2:B16="Forward")),C2:C16),2)

The following screenshot shows how to use this formula:

	A	B	C	D	E	F	G	H	I
1	Team	Position	Points		2nd smallest points on team A among Forwards				
2	A	Guard	3		10				
3	A	Forward	5						
4	A	Guard	5						
5	A	Guard	7						
6	A	Forward	10						
7	A	Forward	13						
8	A	Forward	14						
9	A	Guard	15						
10	B	Forward	19						
11	B	Guard	22						
12	B	Guard	24						
13	B	Forward	25						
14	B	Guard	25						
15	B	Guard	29						
16	B	Forward	31						
17									
18									
19									
20									
21									

This tells us that the 2nd smallest points value among all Forwards on team A is **10**.