

# OR function in Excel

The OR function in Excel returns TRUE if any of the conditions are true and returns FALSE if all conditions are false. Combine the OR function with other functions and become an Excel expert.

1. For example, take a look at the OR function in cell D2 below.

D2									
1	Name	Score 1	Score 2	Result					
2	Richard	93	75	TRUE					
3	Jennifer	60	50	FALSE					
4	James	58	75	FALSE					
5	Lisa	79	100	TRUE					
6	Sharon	41	50	FALSE					
7									

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Explanation: the OR function returns TRUE if the first score is greater than 70 or the second score is equal to 100, else it returns FALSE.

2. Combine the OR function with the [IF function](#).

D2									
1	Name	Score 1	Score 2	Result					
2	Richard	93	75	Pass					
3	Jennifer	60	50	Fail					

4	James	58	75	Fail					
5	Lisa	79	100	Pass					
6	Sharon	41	50	Fail					
7									

Explanation: the OR function returns TRUE or FALSE (see previous example). If TRUE, the IF function returns Pass, if FALSE, the IF function returns Fail.

3. For example, take a look at the OR function in cell E2 below.

E2    :    ✕    ✓ <i>f<sub>x</sub></i> =OR(B2>=90,C2>=90,D2>=90)									
	A	B	C	D	E	F	G	H	I
1	Name	Score 1	Score 2	Score 3	Result				
2	Richard	93	80	81	TRUE				
3	Jennifer	60	91	94	TRUE				
4	James	58	75	98	TRUE				
5	Lisa	79	94	31	TRUE				
6	Sharon	41	33	59	FALSE				
7									

Explanation: the OR function returns TRUE if at least one score is greater than or equal to 90, else it returns FALSE. The OR function can test up to 255 conditions. The only way for the OR function to return FALSE is if all the conditions are FALSE (row 6).

4. The array formula below uses the OR function to return TRUE if any cell in the range A1:E6 is greater than or equal to 90.

G7    :    ✕    ✓ <i>f<sub>x</sub></i> {=OR(A1:E6>=90)}									
	A	B	C	D	E	F	G	H	I
1	79	42	22	56	48				
2	74	70	34	10	76				
3	3	58	36	23	42				
4	10	12	35	91	63				
5	15	21	18	61	28				
6	4	47	84	76	58				
7							TRUE		
8									

Explanation: finish an array formula by pressing CTRL + SHIFT + ENTER. Excel adds the curly braces {}. In Excel 365 or Excel 2021, finish by simply pressing Enter. You won't see curly braces. The value in cell D4 is greater than or equal to 90. As a result, the array formula returns TRUE.

5. Combine the OR function with the AND function.

C2    :    ✕    ✓ <i>f<sub>x</sub></i> =AND(A2="Table",OR(B2="Green",B2="Blue"))									
	A	B	C	D	E	F	G	H	I
1	Product	Color	Result						

2	Table	Red	FALSE						
3	Chair	Blue	FALSE						
4	Table	Green	TRUE						
5	Lamp	Yellow	FALSE						
6	Table	Blue	TRUE						
7	Table	Green	TRUE						
8	Chair	Black	FALSE						
9									

Explanation: the AND Function returns TRUE if all conditions are true and returns FALSE if any of the conditions are false. The AND function above has two arguments separated by a comma (Table, Green or Blue). The AND function returns TRUE if Product equals "Table" and Color equals "Green" or "Blue".

6. Combine the OR function with the WEEKDAY function.

B2    :    ✕    ✓ <i>f<sub>x</sub></i> =OR(WEEKDAY(A2)=1,WEEKDAY(A2)=7)									
	A	B	C	D	E	F	G	H	I
1	Date	Weekend?							
2	7/22/2018	TRUE							
3	3/30/2020	FALSE							
4	2/14/2019	FALSE							
5	8/25/2018	TRUE							
6	1/7/2020	FALSE							
7									

Explanation: the WEEKDAY function in Excel returns a number from 1 (Sunday) to 7 (Saturday) representing the day of the week of a date. As a result, the OR function returns TRUE if the date falls on a weekend.

7. Don't confuse the OR function with the XOR (Exclusive OR) function.

D2    :    ✕    ✓ <i>f<sub>x</sub></i> =XOR(B2>70,C2=100)									
	A	B	C	D	E	F	G	H	I
1	Name	Score 1	Score 2	Result					
2	Richard	93	75	TRUE					
3	Jennifer	60	50	FALSE					
4	James	58	75	FALSE					
5	Lisa	79	100	FALSE					
6	Sharon	41	50	FALSE					
7									

Explanation: the XOR function returns TRUE if an odd number of conditions are true, and FALSE otherwise. With two conditions (see example above) the XOR function returns TRUE if one condition is true (row 2) and returns FALSE if both conditions are false (row 3, 4 and 6) or both conditions are true! (row 5).

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