

# AND function in Excel

The AND function in Excel evaluates multiple conditions and returns TRUE only if all conditions are TRUE.

This guide provides a comprehensive understanding of the AND function, starting with basic usage and progressing to more advanced formulas.

## ◆ Basic AND function

Let's start simple. For example, consider the AND function shown below.

C2								
	A	B	C	D	E	F	G	H
1	Price	Rating	Formula Result					
2	\$55	4.5	TRUE					
3								

Explanation: in this example, the AND function returns TRUE because the price in cell A2 is greater than \$50 and the rating in cell B2 is 4.5 stars, meeting both conditions.

## ◆ AND function with Text Criteria

Determine if a project is complete and has received positive feedback.

C2								
	A	B	C	D	E	F	G	H
1	Status	Feedback	Formula Result					
2	Complete	Positive	TRUE					
3								

Explanation: in this example, the AND function returns TRUE because the project status in cell A2 is "Complete" and the feedback in cell B2 is "Positive", meeting both criteria.

Don't forget, always enclose text criteria in double quotation marks when using Excel.

## ◆ Combining AND with IF

Determine if an employee qualifies for a bonus based on sales exceeding \$200,000 and a customer satisfaction score above 90%.

C2								
	A	B	C	D	E	F	G	H



	A	B	C	D	E	F	G	H
1	Salary	Performance	Formula Result					
2	\$45,000	5	\$49,500					
3								

Explanation: in this example, the IF-AND formula adjusts the salary because the conditions—salary under \$50,000 and a top performance rating—are both met, qualifying the employee for the raise.

## ◆ Advanced AND formula

Determine if all sales values in the range A2:A5 exceed 200 units and all cost values in the range B2:B5 are less than \$50.

C2	=IF(AND(MIN(A2:A5) > 200, MAX(B2:B5) < 50), "Yes", "No")							
	A	B	C	D	E	F	G	H
1	Sales	Costs	Formula Result					
2	210	\$45	No					
3	220	→ \$59						
4	205	\$48						
5	230	\$35						
6								

The formula uses the MIN function to check if the minimum value in the sales range (A2:A5) is greater than 200. If it is, this confirms that all sales values are above 200. Similarly, the MAX function checks if the maximum value in the costs range (B2:B5) is less than \$50. If this condition holds true, all cost values are below \$50.

The IF-AND formula returns "Yes" if both conditions of the AND function are met. Since the cost in row 3 exceeds \$50, the result is "No".



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