

Microsoft Excel

Module 23 - Use of Count IF and Count IFs Function



CBSE

Count IF and Count IFs Function in MS Excel:

In Microsoft Excel, COUNTIF and COUNTIFS are functions used to count the number of cells that meet a certain condition or set of conditions.



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In MS Excel, COUNTIF counts cells within a range that meet a single criterion, while COUNTIFS counts cells based on multiple criteria across different ranges.



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1. COUNTIF Function:

The COUNTIF function counts the number of cells that meet a single condition in a range.

FORMULA:

= COUNTIF(range, criteria)

□ range: The range of cells you want to evaluate.

□ criteria: The condition that you want to apply to the range.



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Where to use?

• **Counting values based on a condition:** For example, count how many cells contain a specific number, text, or meet a condition like greater than or less than a certain value.

○ Example: =COUNTIF(A2:A10, ">5") – This counts how many cells in the range A2:A10 contain numbers greater than 5.

• **Counting specific text:** If you want to count how many times a particular word or text appears in a range.

○ Example: =COUNTIF(B2:B10, "Yes") – This counts how many cells in the range B2:B10 contain the word "Yes."

• **Counting blanks or non-blanks:** You can count empty or non-empty cells.

○ Example: =COUNTIF(C2:C10, "") – This counts how many cells in the range C2:C10 are empty.

○ Example: =COUNTIF(C2:C10, "<>") – This counts how many cells in the range C2:C10 are not empty.

• **Using wildcards:** You can use wildcards in the criteria to match patterns.

○ Example: =COUNTIF(D2:D10, "*apple*") – This counts cells containing "apple" (it can be part of a larger word).



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Examples:

• **Example 1:** Count how many times the number 10 appears in cells A1 to A10:

Formula:- =COUNTIF(A1:A10, 10)

• **Example 2:** Count how many cells in range B1:B20 contain the word "Completed":



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Formula:- =COUNTIF(B1:B20, "Completed")
 • **Example 3:** Count how many cells in range C1:C15 contain numbers greater than 50:
 Formula:- =COUNTIF(C1:C15, ">50")

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2. COUNTIFS Function:
 The COUNTIFS function counts the number of cells that meet multiple conditions (criteria) across multiple ranges. Unlike COUNTIF, which can only handle one condition, COUNTIFS allows for multiple conditions to be applied.

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FORMULA:-
 COUNTIFS(range1, criteria1, range2, criteria2, ...)

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- range1: The first range of cells to evaluate.
- criteria1: The condition to apply to range1.
- range2: The second range of cells to evaluate (and so on, for additional criteria).
- criteria2: The condition to apply to range2.

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Where to use:

- **Counting with multiple conditions:** You can use COUNTIFS when you have multiple conditions (criteria) to apply across different ranges.
 - Example: =COUNTIFS(A2:A10, ">5", B2:B10, "Yes") – This counts how many rows have values greater than 5 in column A and "Yes" in column B.
- **Using multiple ranges:** It's useful when you need to apply criteria to multiple ranges and only count the rows where all conditions are met.
 - Example: =COUNTIFS(D2:D10, "Apple", E2:E10, "<50") – This counts how many cells in the range D2:D10 contain "Apple" and at the same time, the corresponding cells in E2:E10 contain a value less than 50.
- **Date ranges:** You can use COUNTIFS to count cells that fall within a specific date range.
 - Example: =COUNTIFS(A2:A10, ">1/1/2025", A2:A10, "<12/31/2025") – This counts how many dates in A2:A10 fall between January 1, 2025, and December 31, 2025.
- **Combining text and numbers:** You can use COUNTIFS to count based on both text and numeric criteria.
 - Example: =COUNTIFS(A2:A10, "John", B2:B10, ">50") – This counts how many cells in column A contain "John" and at the same time, the corresponding cells in column B contain a value greater than 50.

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Examples:

- **Example 1:** Count how many times the word "Completed" appears in column B and the value "Yes" appears in column C:

Formula:-
 =COUNTIFS(B1:B20, "Completed", C1:C20, "Yes")

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• **Example 2:** Count how many cells in range A1:A10 are greater than 50 and corresponding values in B1:B10 are less than 100:

Formula :-
=COUNTIFS(A1:A10, ">50", B1:B10, "<100")

• **Example 3:** Count how many cells in range D1:D10 have the text "Pass" and range E1:E10 are equal to 80:

Formula :-
=COUNTIFS(D1:D10, "Pass", E1:E10, 80)

DIFFERENCE BETWEEN COUNTIF AND COUNTIFS FUNCTION :-

Here's the difference between COUNTIF and COUNTIFS functions in Excel in a tabular form:

Aspect	COUNTIF	COUNTIFS
Number of Criteria	One condition	Multiple conditions
Number of Ranges	One range	Multiple ranges (one range for each condition)
Syntax	=COUNTIF(range, criteria)	=COUNTIFS(range1, criteria1, range2, criteria2, ...)
Purpose	To count cells that meet one condition in a single range	To count cells that meet multiple conditions across multiple ranges
Use Case	Simple condition-based counting, such as "how many cells contain a certain value"	Complex condition-based counting, such as "how many cells meet several criteria across different columns"

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ASSIGNMENT

	A	B	C	D
1	Date	Region	Item	Amount
2	01/10/2020	Central	Veg	605
3	09/10/2020	Central	Fruit	377
4	25/10/2020	North	Veg	463
5	27/10/2020	North	Fruit	364
6	27/10/2020	North	Fruit	538
7	29/10/2020	South	Veg	686
8	29/10/2020	Central	Veg	663
9	05/11/2020	South	Fruit	608
10	07/11/2020	Central	Veg	787
11	07/11/2020	North	Fruit	290

TASKS:

From the above table find out following:

1. Count how many times “veg” appears in cells from C2 to C11.
2. Count how many times “central” appears in cells from B2 to B11.
3. Count how many times the word appears “central” in column B and the “veg” appears in column C.
4. Count how many times the word appears “North” in column B and the results is “fruit” appears in column C.