

Microsoft Excel

Module 22 - Count, Count A and Count Blank Function in MS - Excel



CBSE

In Microsoft Excel, the functions COUNT, COUNTA, and COUNTBLANK are used to count the number of cells in a range based on different criteria:



ICSE

In Excel Count, Counts cells that containing numbers , Count A counts cells that aren't blank and (including those texts, numbers or even errors) and Count blank counts cells that explicitly empty.



NTSE

COUNT:

- **Purpose:** Counts the number of cells that contain **numeric data** in a specified range.
- **Usage:** =COUNT(range)
- **Example:** If you have a range of cells A1:A5 with values (1, 2, "Hello", 4, ""), =COUNT(A1:A5) will return 3 because there are three numeric values (1, 2, and 4).



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COUNT A:

- **Purpose:** Counts the number of cells that contain **any kind of data**, including numbers, text, logical values, and error values, but **ignores blank cells**.
- **Usage:** =COUNTA(range)
- **Example:** If you have the same range A1:A5 with values (1, 2, "Hello", 4, ""), =COUNTA(A1:A5) will return 4 because it counts the non-blank cells, including the text "Hello" and numbers.



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COUNTBLANK:

- **Purpose:** Counts the number of **empty or blank cells** in a specified range.
- **Usage:** =COUNTBLANK(range)
- **Example:** If you have a range A1:A5 with values (1, 2, "Hello", 4, ""), =COUNTBLANK(A1:A5) will return 1 because there's one blank cell (the one that is empty).



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Use of Count, Count A and Count Blank Function in MS Excel

Difference between COUNT, COUNTA, and COUNTBLANK in a tabular form :

| Function | Description | Counts | Example |
|------------|--|---|---|
| COUNT | Counts the number of cells that contain numbers. | Only numeric values (numbers, dates, times) | =COUNT(A1:A5) counts how many cells in the range contain numbers. |
| COUNTA | Counts the number of non-empty cells, including numbers, text, logical values, and errors. | Non-empty cells (numbers, text, logical values, errors) | =COUNTA(A1:A5) counts all non-empty cells in the range, including text. |
| COUNTBLANK | Counts the number of empty (blank) cells in a range. | Blank cells (cells with no value) | =COUNTBLANK(A1:A5) counts how many cells in the range are empty. |

COUNT Function:

• **Purpose:** Counts the number of cells that contain numbers in a range.

Example:

Suppose you have the following data in cells A1 to A5:

FORMULA: = COUNT(A1:A5)

Result: Will be 3

• The COUNT function only counts the cells with numeric values (5, 10, and 15), so it returns 3.

COUNTA Function:

• **Purpose:** Counts the number of non-empty cells in a range (includes numbers, text, logical values, and errors).

Example:

Using the same data as above (A1 to A5):

FORMULA: =COUNTA(A1:A5)

Result: Will be 4

• The COUNTA function counts all non-empty cells: 5, 10, Text, and 15. It ignores the empty cell in A5.

| | A | B | C |
|---|------|---|---|
| 1 | 5 | | |
| 2 | 10 | | |
| 3 | Text | | |
| 4 | 15 | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |

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Use of Count, Count A and Count Blank Function in MS Excel

COUNTBLANK Function:

• **Purpose:** Counts the number of empty cells in a range.

Example:

Using the same data as above (A1 to A5):

FORMULA: =COUNTBLANK(A1:A5)

Result: Will be 1

• The COUNTBLANK function counts how many cells are empty in the range. In this case, only cell A5 is empty, so it returns 1.

ASSIGNMENT

Use the Count, Count A and Count Blank function from the following table:

Q1: How many activities are listed in the “Activity” column?

Q2: How many blank cells are there in the “Age” column?

Q3: How many names are filled in the “Name” column?

| | A | B | C | D |
|----|-------------|-------------------|------------|---|
| 1 | Name | Activity | Age | |
| 2 | Aarav | Playing Chess | 25 | |
| 3 | Meera | Painting | 22 | |
| 4 | Rajesh | Gardening | | |
| 5 | Sanya | Reading Novels | 28 | |
| 6 | Vikram | Trekking | 30 | |
| 7 | Pooja | Singing | | |
| 8 | Rohan | Photography | 27 | |
| 9 | Neha | Cooking | 24 | |
| 10 | Aditya | Playing Guitar | | |
| 11 | Ishita | Dancing | 26 | |
| 12 | | | | |
| 13 | | | | |