

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):

	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**

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.

**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	<b>Name</b>	<b>Activity</b>	<b>Age</b>	
2	<b>Aarav</b>	<b>Playing Chess</b>	<b>25</b>	
3	<b>Meera</b>	<b>Painting</b>	<b>22</b>	
4	<b>Rajesh</b>	<b>Gardening</b>		
5	<b>Sanya</b>	<b>Reading Novels</b>	<b>28</b>	
6	<b>Vikram</b>	<b>Trekking</b>	<b>30</b>	
7	<b>Pooja</b>	<b>Singing</b>		
8	<b>Rohan</b>	<b>Photography</b>	<b>27</b>	
9	<b>Neha</b>	<b>Cooking</b>	<b>24</b>	
10	<b>Aditya</b>	<b>Playing Guitar</b>		
11	<b>Ishita</b>	<b>Dancing</b>	<b>26</b>	
12				
13				