

Ms Excel All Formulas With Examples



The formula appears in the Formula Bar.

	A	B	C	D	E	F	G	H
1	sr.no	name	rate	qt				
2	1	lcd	10000	5	50000	2500	47500	
3	2	fridge	20000	10	2E+05	10000	2E+05	
4	3	ups	2000	16	32000	1600	30400	
5	4	speaker	5000	7	35000	1750	33250	
6	5	keyboar	500	40	20000	1000	19000	
7	6	mobile	3000	5	15000	750	14250	
8	7	dfgvd	500	15	7500	375	7125	
9								
10								
11								

Excel displays the formula result in the cell

MS Excel All Formulas with Examples

Microsoft Excel is a powerful spreadsheet application widely used for data analysis, financial modeling, and various other tasks in business and personal contexts. One of its core functionalities is the ability to use formulas to perform calculations and automate data processing. This article will explore the vast array of formulas available in MS Excel, providing examples and explanations to help users become proficient in leveraging these essential tools.

Understanding Excel Formulas

Before diving into the specific formulas, it's important to understand the structure of Excel formulas. A formula in Excel always begins with an equal sign ('='), followed by operators and operands. The formula can include:

- Functions: Predefined calculations (e.g., 'SUM', 'AVERAGE').
- Operators: Symbols that perform operations (e.g., '+', '-', '*', '/', '^').
- Cell References: Indicate specific cells (e.g., 'A1', 'B2').

Basic Mathematical Formulas

1. SUM

The `SUM` function adds up a range of numbers.

Syntax: `=SUM(number1, [number2], ...)`

Example: To sum values in cells A1 to A5.

```
```excel
=SUM(A1:A5)
```
```

2. AVERAGE

The `AVERAGE` function calculates the mean of a group of numbers.

Syntax: `=AVERAGE(number1, [number2], ...)`

Example: To find the average of values in cells B1 to B5.

```
```excel
=AVERAGE(B1:B5)
```
```

3. MIN and MAX

The `MIN` and `MAX` functions return the smallest and largest values in a set, respectively.

Syntax:

- `=MIN(number1, [number2], ...)`
- `=MAX(number1, [number2], ...)`

Example: To find the minimum and maximum in cells C1 to C5.

```
```excel
=MIN(C1:C5)
=MAX(C1:C5)
```
```

4. COUNT and COUNTA

- `COUNT` counts the number of cells that contain numbers.
- `COUNTA` counts the number of non-empty cells.

Syntax:

- `=COUNT(value1, [value2], ...)`
- `=COUNTA(value1, [value2], ...)`

Example: To count numeric entries in D1 to D5.

```
```excel
=COUNT(D1:D5)
```
```

Example: To count all non-empty entries in E1 to E5.

```
```excel
=COUNTA(E1:E5)
```
```

Text Manipulation Formulas

1. CONCATENATE / CONCAT

The `CONCATENATE` (or `CONCAT` in newer versions) function combines multiple strings into one.

Syntax: `=CONCATENATE(text1, [text2], ...)`

Example: To combine values in cells F1 and G1.

```
```excel
=CONCATENATE(F1, G1)
```
```

Example with CONCAT:

```
```excel
=CONCAT(F1, G1)
```
```

2. LEFT, RIGHT, and MID

These functions extract specific portions of text from a string.

- LEFT: Returns the leftmost characters.
- RIGHT: Returns the rightmost characters.
- MID: Returns characters from the middle of a string.

Syntax:

- `=LEFT(text, [num_chars])`
- `=RIGHT(text, [num_chars])`
- `=MID(text, start_num, num_chars)`

Example: To get the first 3 characters from H1.

```
``excel
=LEFT(H1, 3)
```
```

Example: To get the last 2 characters from I1.

```
``excel
=RIGHT(I1, 2)
```
```

Example: To get 5 characters starting from the second character of J1.

```
``excel
=MID(J1, 2, 5)
```
```

### 3. UPPER, LOWER, and PROPER

These functions change the case of text.

- UPPER: Converts text to uppercase.
- LOWER: Converts text to lowercase.
- PROPER: Capitalizes the first letter of each word.

Syntax:

- `=UPPER(text)`
- `=LOWER(text)`
- `=PROPER(text)`

Example: To convert text in K1 to uppercase.

```
``excel
=UPPER(K1)
```
```

Logical Formulas

1. IF

The `IF` function checks a condition and returns one value for TRUE and another for FALSE.

Syntax: `=IF(logical_test, value_if_true, value_if_false)`

Example: To check if the value in L1 is greater than 10.

```
```excel
=IF(L1 > 10, "Over 10", "10 or less")
```
```

2. AND, OR, NOT

These functions evaluate multiple conditions.

- AND: Returns TRUE if all conditions are TRUE.
- OR: Returns TRUE if any condition is TRUE.
- NOT: Reverses the logical value.

Syntax:

- `=AND(condition1, [condition2], ...)`
- `=OR(condition1, [condition2], ...)`
- `=NOT(logical)`

Example: To check if L1 is greater than 10 and less than 20.

```
```excel
=AND(L1 > 10, L1 < 20)
```
```

Example: To check if L1 is either less than 5 or greater than 15.

```
```excel
=OR(L1 < 5, L1 > 15)
```
```

Date and Time Formulas

1. TODAY and NOW

- `TODAY` returns the current date.
- `NOW` returns the current date and time.

Syntax:

- `=TODAY()`
- `=NOW()`

Example: To display today's date.

```
```excel
=TODAY()
```
```

Example: To display the current date and time.

```
```excel
=NOW()
```
```

2. DATE

The `DATE` function creates a date from individual year, month, and day values.

Syntax: `=DATE(year, month, day)`

Example: To create a date for March 5, 2023.

```
```excel
=DATE(2023, 3, 5)
```
```

Lookup and Reference Formulas

1. VLOOKUP

The `VLOOKUP` function searches for a value in the first column of a table and returns a value in the same row from a specified column.

Syntax: `=VLOOKUP(lookup_value, table_array, col_index_num, [range_lookup])`

Example: To find the price of an item based on its ID in A1.

```
```excel
=VLOOKUP(A1, B1:D10, 2, FALSE)
```
```

2. HLOOKUP

The `HLOOKUP` function is similar to `VLOOKUP`, but it searches for a value in the first row and returns a value from a specified row.

Syntax: `=HLOOKUP(lookup_value, table_array, row_index_num, [range_lookup])`

Example: To find the sales figures based on a category in A1.

```
```excel
=HLOOKUP(A1, B1:F2, 2, FALSE)
```
```

3. INDEX and MATCH

These functions can be used together to create a powerful lookup tool.

- INDEX returns the value of a cell in a specified row and column.
- MATCH returns the relative position of a specified value in a range.

Syntax:

- `=INDEX(array, row_num, [column_num])`
- `=MATCH(lookup_value, lookup_array, [match_type])`

Example: To find the item price.

```
```excel
=INDEX(B1:B10, MATCH(A1, A1:A10, 0))
```
```

Advanced Formulas

1. SUMIF and SUMIFS

- `SUMIF` sums values based on a single criterion.
- `SUMIFS` sums values based on multiple criteria.

Syntax:

- `=SUMIF(range, criteria, [sum_range])`

- `=SUMIFS(sum_range, criteria_range1, criteria1, [criteria_range2, criteria2], ...)`

Example: To sum values in B1:B10 where A1:A10 equals "Yes".

```
```excel
=SUMIF(A1:A10, "Yes", B1:B10)
```
```

Example with SUMIFS: To sum values in C1:C10 where A1:A10 equals "Yes" and B1:B10 is greater than 100.

```
```excel
=SUMIFS(C1:C10, A1
```

## Frequently Asked Questions

### What is the SUM formula in Excel and how can it be used?

The SUM formula in Excel adds up a range of numbers. For example, =SUM(A1:A5) will sum all values from cells A1 to A5.

### How do you use the VLOOKUP function in Excel?

VLOOKUP is used to search for a value in the first column of a range and return a value in the same row from a specified column. For example, =VLOOKUP(B1, A1:C10, 3, FALSE) looks for the value in B1 within the range A1:C10 and returns the corresponding value from the third column.

### What is the IF formula in Excel and can you provide an example?

The IF formula checks a condition and returns one value if true and another if false. For example, =IF(A1>100, 'Over Budget', 'Within Budget') will display 'Over Budget' if the value in A1 is greater than 100.

### Can you explain the CONCATENATE function with an example?

The CONCATENATE function joins two or more strings together. For instance, =CONCATENATE(A1, ' ', B1) will combine the values in A1 and B1 with a space in between.

### What does the COUNTIF function do in Excel?

The COUNTIF function counts the number of cells that meet a specific condition. For example, =COUNTIF(A1:A10, '>10') counts how many cells in the range A1 to A10 have values greater than 10.

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