

## Most Commonly used Excel Formulas for a Data Analyst

1. SUM: =SUM(A1:A10)  
Adds up all the numbers in a range of cells.
2. AVERAGE: =AVERAGE(B1:B10)  
Calculates the average of a range of numbers.
3. COUNT: =COUNT(C1:C10)  
Counts the number of cells that contain numbers.
4. COUNTA: =COUNTA(D1:D10)  
Counts the number of non-empty cells.
5. MIN: =MIN(E1:E10)  
Finds the smallest number in a range.
6. MAX: =MAX(F1:F10)  
Finds the largest number in a range.
7. IF: =IF(G1>10, "Yes", "No")  
Returns one value if a condition is true and another if it's false.
8. CONCATENATE (or TEXTJOIN(&)): =CONCATENATE(A2, " ", B2)  
Combines text from multiple cells into one cell.
9. TRIM: =TRIM(H2)  
Removes extra spaces from text.
10. LEFT, RIGHT, MID: =LEFT(I2, 3)  
Extracts a specific number of characters from the start, end, or middle of a text string.
11. VLOOKUP: =VLOOKUP(J2, K2:L10, 2, FALSE)  
Looks up a value in a table and returns a corresponding value.
12. HLOOKUP: =HLOOKUP(M2, N2:O10, 2, FALSE)  
Similar to VLOOKUP but searches horizontally across the top row of a table.
13. INDEX: =INDEX(P2:P10, 4)  
Returns the value of a cell in a specified position within a range.
14. MATCH: =MATCH("Value", Q2:Q10, 0)  
Returns the relative position of an item in a range.
15. SUMIF: =SUMIF(R2:R10, ">100", S2:S10)

Adds cells that meet a specified condition.

16. COUNTIF: =COUNTIF(T2:T10, "Criteria")

Counts cells that meet a specified condition.

17. IFERROR: =IFERROR(VLOOKUP(U2, V2:W10, 2, FALSE), "Not Found")

Returns a value you specify if a formula evaluates to an error; otherwise, it returns the result of the formula.

18. SUMPRODUCT: =SUMPRODUCT(X2:X10, Y2:Y10)

Multiplies corresponding elements in the specified arrays and returns the sum of those products.

19. TEXT: =TEXT(Z2, "yyyy-mm-dd")

Formats a number or date as text in a specified format.

20. PIVOT TABLES: While not a formula, knowing how to create and manipulate Pivot Tables is crucial for data analysis in Excel.

21. ARRAYFORMULA: =ARRAYFORMULA(A2:A10 B2:B10)

Performs calculations on ranges of data rather than a single cell.

22. XLOOKUP: =XLOOKUP(AA2, AB2:AB10, AC2:AC10)

A more powerful version of VLOOKUP that allows for searching both vertically and horizontally.

23. OFFSET: =OFFSET(AD2, 2, 3)

Returns a reference to a range that is a specified number of rows and columns from a cell or range of cells.

24. TRANSPOSE: =TRANSPOSE(AE2:AE10)

Converts a vertical range of cells to a horizontal range and vice versa.

25. INDIRECT: =INDIRECT("AF2:AF10")

Returns the references specified by a text string.