

Core Calculation Formulas

1. SUM

Adds all numbers in a range

=SUM(A1:A9)

Add values from cell A1 to A9

2. AVERAGE

Calculates the average of numbers in a range

=AVERAGE(B1:B9)

Average of B1 to B9

3. ROUND

Rounds a number to a specified number of digits

=ROUND(C1,2)

Round C1 to 2 decimal places

4. MIN

Identifies the lowest number in a range

=MIN(D1:D9)

Find the minimum in D1 to D9

5. MAX

Finds the highest number in a range

=MAX(D1:D9)

Get the maximum value in D1 to D9

6. COUNT

Counts the number of cells that contain numbers

=COUNT(F1:F9)

Count numeric cells in F1 to F9
*It only counts the numerical inputs

Countblank: Count all the empty cells

10. HLOOKUP

Searches for a value in the top row of a table.

=HLOOKUP(B3:B3,D2:F2,2,FALSE)

To find B3 in the top row D2:F2

11. XLOOKUP

Finds a value in one range & returns a result from another

=XLOOKUP(A7:A2:A4,B2:C4)

To find A7 in A2:A4 & return corresponding value from B2:C4. If a match is found

Referencing

7. INDEX

Returns a value in table based on row & column number

=INDEX(K1:L3,3,2)

For the value in the 3rd row & 2nd column from the range K1:L3

8. MATCH

Searches for a value and returns its relative position

=MATCH(L1:M1,M9:Q)

To find L1's position from the range M9:Q

9. VLOOKUP

Searches for a value in the first column of a range

=VLOOKUP(C1:H10,2,FALSE)

To find C1 in H1:H10

Tips

- For an exact match => FALSE
- Approximate matching => TRUE (useful when the look-up value is a number)

2 Columns containing the data need to be retrieved

Conditional Calculations

12. COUNTIF / COUNTIFS

Counts cells that meet a condition

=COUNTIF(N1:N9,">5")

To count cells greater than 5

13. COUNTA

Counts non-empty cells

=COUNTA(O1:O9)

To count all non-empty cells in a range

14. SUMIF / SUMIFS

Adds cells that meet a condition

=SUMIF(P1:P9,">5")

To sum values over 5

15. IF / NESTED IFs

Performs conditional tests

=IF(R1>5,"Yes","No")

For simple conditions

Note

- IF: 1 variable
 - IFS: multiple variables
- if(text, true, false)
if(text, true, if(text2, true, false))
if(text, true, if(text2, true, if(text3, true, false)))

16. AVERAGEIF / AVERAGEIFS

Calculates the average for cells that meet criteria

=AVERAGEIF(Q1:Q9,">5")

Average of values over 5

17. Logical Operators (AND, OR)

Combines multiple conditions

=AND(S1>5,S2>2)

Both conditions are true => Output is true

=OR(S1>5,S2>2)

Just 1 condition is true => Output is true

Output Format Management

18. CONCATENATE

Joins two or more text strings

=CONCATENATE(K1," ")L1

Combine first name and last name in one cell

19. LEFT / RIGHT

Extracts characters from the start/end of a text string

=LEFT(U1,5)

The result: "Excel"

=RIGHT(U1,5)

The result: "Mastery"

20. MID

Extracts characters from the middle of a text string

=MID(V1,7,7)

7 characters starting from the 7th => Mastery

21. TEXT

Converts a value to text in a specific number format

=TEXT(W1,"MM/DD/YYYY")

17/02/2024 => Feb-24

22. IFERROR

Returns a custom result if a formula errors out

=IFERROR(X1,"")

Give 0 as output instead of #DIV/0!



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G Psacharopoulos



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