Excel Intellect

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100 Excel Formulas

Ready-to-edit formulas for the jobs people do most, in ten groups.

Change the ranges to fit your data. A tag marks formulas that need Microsoft 365 or a newer Excel version. Most also work in Google Sheets, though argument details can differ.

Sum

What you need	Formula
Add a range	`=SUM(B2:B50)`
Add with one condition	`=SUMIF(A2:A50,"East",C2:C50)`
Add with several conditions	`=SUMIFS(C2:C50,A2:A50,"East",B2:B50,"Feb")`
Add between two dates	`=SUMIFS(C2:C50,A2:A50,">="&F1,A2:A50,"<="&F2)`
Add visible rows only	`=SUBTOTAL(109,C2:C50)`
Running total	`=SUM($C$2:C2)`
Quantity times price, then add	`=SUMPRODUCT(B2:B50,C2:C50)`
Add values above a limit	`=SUMIF(C2:C50,">1000")`
Add the three largest	`=SUM(LARGE(C2:C50,{1,2,3}))`
Add while ignoring errors (Excel) Newer Excel	`=AGGREGATE(9,6,C2:C50)`

Count

What you need	Formula
Count numbers	`=COUNT(B2:B50)`
Count non-empty cells	`=COUNTA(A2:A50)`
Count blank cells	`=COUNTBLANK(A2:A50)`
Count with one condition	`=COUNTIF(A2:A50,"East")`
Count with several conditions	`=COUNTIFS(A2:A50,"East",C2:C50,">1000")`
Count text that contains a word	`=COUNTIF(A2:A50,"*east*")`
Count unique values, no blanks	`=SUMPRODUCT(1/COUNTIF(A2:A50,A2:A50))`
Count between two numbers	`=COUNTIFS(C2:C50,">=100",C2:C50,"<=500")`
Count dates in one month	`=COUNTIFS(A2:A50,">="&DATE(2026,1,1),A2:A50,"<"&DATE(2026,2,1))`
Test for a repeated value	`=COUNTIF($A$2:$A$50,A2)>1`

Look up

What you need	Formula
Modern lookup Newer Excel	`=XLOOKUP(F2,A2:A50,C2:C50,"Not found")`
Classic exact lookup	`=VLOOKUP(F2,A2:C50,3,FALSE)`

What you need	Formula
Lookup that works in every version	`=INDEX(C2:C50,MATCH(F2,A2:A50,0))`
Look up by row and column	`=INDEX(B2:E50,MATCH(G1,A2:A50,0),MATCH(G2,B1:E1,0))`
Return a column to the left	`=INDEX(A2:A50,MATCH(F2,C2:C50,0))`
Find the last match Newer Excel	`=XLOOKUP(F2,A2:A50,C2:C50,,0,-1)`
Find a rate from a tier table Newer Excel	`=XLOOKUP(F2,A2:A5,B2:B5,,-1)`
Look up with two conditions	`=INDEX(C2:C50,MATCH(1,INDEX((A2:A50=F1)*(B2:B50=F2),0),0))`
Look up part of a text Newer Excel	`=XLOOKUP("*"&F2&"*",A2:A50,C2:C50,"Not found",2)`
Show a message for a missing value	`=IFNA(VLOOKUP(F2,A2:C50,3,FALSE),"Not listed")`

Logic

What you need	Formula
Choose between two results	`=IF(B2>=100,"Pass","Review")`
Three outcomes with nested IF	`=IF(B2>=90,"A",IF(B2>=75,"B","C"))`
Several tests Newer Excel	`=IFS(B2>=90,"A",B2>=75,"B",TRUE,"C")`
All tests must pass	`=IF(AND(B2>0,C2>0),"OK","Check")`
Any test can pass	`=IF(OR(A2="East",A2="West"),"Yes","No")`
Match a list of values Newer Excel	`=SWITCH(A2,"E","East","W","West","Other")`
Replace any error	`=IFERROR(A2/B2,0)`
Replace only #N/A	`=IFNA(MATCH(F2,A2:A50,0),0)`
Flag a blank cell	`=IF(A2="","Missing","OK")`
Test a number range	`=IF(AND(B2>=10,B2<=20),"In range","Out of range")`

Text

What you need	Formula
Join with a separator Newer Excel	`=TEXTJOIN(", ",TRUE,A2:A9)`
Join first and last name	`=A2&" "&B2`
First three characters	`=LEFT(A2,3)`
Last four characters	`=RIGHT(A2,4)`
Characters from the middle	`=MID(A2,5,2)`
Remove extra spaces	`=TRIM(A2)`
Capitalize each word	`=PROPER(A2)`
Replace one word with another	`=SUBSTITUTE(A2,"Ltd","Limited")`
Get the first word	`=LEFT(A2,FIND(" ",A2)-1)`
Format a number as text	`=TEXT(B2,"#,##0.00")`

Dates

What you need	Formula
Today	`=TODAY()`

What you need	Formula
Last day of the month	`=EOMONTH(A2,0)`
First day of the month	`=A2-DAY(A2)+1`
Add three months	`=EDATE(A2,3)`
Complete years between dates	`=DATEDIF(A2,TODAY(),"Y")`
Workdays between dates	`=NETWORKDAYS(A2,B2)`
Date after 10 workdays	`=WORKDAY(A2,10)`
Day name	`=TEXT(A2,"dddd")`
Calendar quarter	`=ROUNDUP(MONTH(A2)/3,0)`
Year and month label	`=TEXT(A2,"yyyy-mm")`

Math and percentages

What you need	Formula
Round to two decimals	`=ROUND(A2,2)`
Round up to a whole number	`=ROUNDUP(A2,0)`
Round to the nearest 5	`=MROUND(A2,5)`
Percent of total	`=B2/SUM($B$2:$B$50)`
Percent change	`=(C2-B2)/B2`
Profit margin	`=(B2-C2)/B2`
Average	`=AVERAGE(B2:B50)`
Average with conditions	`=AVERAGEIFS(C2:C50,A2:A50,"East")`
Largest value	`=MAX(B2:B50)`
Smallest value	`=MIN(B2:B50)`

Rank and statistics

What you need	Formula
Rank in a list	`=RANK.EQ(B2,$B$2:$B$50)`
Second largest	`=LARGE(B2:B50,2)`
Second smallest	`=SMALL(B2:B50,2)`
Middle value	`=MEDIAN(B2:B50)`
Most common number	`=MODE.SNGL(B2:B50)`
Sample standard deviation	`=STDEV.S(B2:B50)`
90th percentile	`=PERCENTILE.INC(B2:B50,0.9)`
Correlation of two columns	`=CORREL(B2:B50,C2:C50)`
Linear forecast	`=FORECAST.LINEAR(F2,C2:C50,B2:B50)`
Upper quartile	`=QUARTILE.INC(B2:B50,3)`

Dynamic arrays

What you need	Formula
Filter by a condition Newer Excel	`=FILTER(A2:C50,B2:B50="East")`
Filter by two conditions (Excel) Newer Excel	`=FILTER(A2:C50,(B2:B50="East")*(C2:C50>1000))`
Sort by a column Newer Excel	`=SORT(A2:C50,3,-1)`
Sort by another column (Excel) Newer Excel	`=SORTBY(A2:A50,C2:C50,-1)`
Unique list Newer Excel	`=UNIQUE(A2:A50)`
Sorted unique list Newer Excel	`=SORT(UNIQUE(A2:A50))`
Top five rows (Excel) Newer Excel	`=TAKE(SORT(A2:C50,3,-1),5)`
Numbers 1 to 10 Newer Excel	`=SEQUENCE(10)`
Split text into columns (Excel) Newer Excel	`=TEXTSPLIT(A2," ")`
Name part of a formula Newer Excel	`=LET(t,SUM(C2:C50),C2/t)`

Clean and check

What you need	Formula
Remove spaces and hidden characters	`=TRIM(CLEAN(A2))`
Turn text into a number	`=VALUE(TRIM(A2))`
Get an email domain	`=MID(A2,FIND("@",A2)+1,100)`
Check for a real number	`=ISNUMBER(B2)`
Mark repeated values	`=IF(COUNTIF($A$2:$A$50,A2)>1,"Duplicate","Unique")`
Check a code length	`=LEN(A2)=10`
Keep leading zeros	`=TEXT(A2,"00000")`
Remove commas	`=SUBSTITUTE(A2,",","")`
Change to capitals	`=UPPER(A2)`
Replace a blank with zero	`=IF(A2="",0,A2)`

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