

Date and Time Functions

Function	Description	Example
=EDATE	Returns the date that is a specified number of months before or after a start date.	=EDATE(A1, 2)
=EOMONTH	Returns the last day of the month that is a specified number of months before or after a start date.	=EOMONTH(A1, 1)
=DATE	Converts year, month, and day into a date.	=DATE(2023, 7, 27)
=TODAY	Returns the current date.	=TODAY()
=NETWORKDAYS	Returns the number of whole workdays between two dates.	=NETWORKDAYS(A1, A2)
=YEAR	Extracts the year from a date.	=YEAR(A1)
=YEARFRAC	Returns the year fraction representing the number of whole days between start_date and end_date.	=YEARFRAC(A1, A2)

Counting Data Functions

Function	Description	Example
=COUNT	Counts the number of cells that contain numbers.	=COUNT(A1:A10)
=COUNTIF	Counts the number of cells that meet a criterion.	=COUNTIF(A1:A10, ">5")
=COUNTA	Counts the number of cells that are not empty.	=COUNTA(A1:A10)

Mathematical Functions

Function	Description	Example
=LOG	Returns the logarithm of a number to a specified base.	=LOG(100, 10)
=EXP()	Returns e raised to the power of a number.	=EXP(1)
=MAX	Returns the maximum value in a range.	=MAX(A1:A10)
=MIN	Returns the minimum value in a range.	=MIN(A1:A10)
=MAXA	Returns the maximum value in a range, including logical values and text.	=MAXA(A1:A10)
=MINA	Returns the minimum value in a range, including logical values and text.	=MINA(A1:A10)
=SUM	Adds all the numbers in a range.	=SUM(A1:A10)
=SUMIF	Adds the cells specified by a given condition or criteria.	=SUMIF(A1:A10, ">5")
=SUMSQ	Returns the sum of the squares of the arguments.	=SUMSQ(A1:A10)
=AVERAGE	Returns the average of its arguments.	=AVERAGE(A1:A10)
=MEDIAN	Returns the median of its arguments.	=MEDIAN(A1:A10)
=PERCENTILE.INC	Returns the k-th percentile of values in a range.	=PERCENTILE.INC(A1:A10, 0.5)
=ROUNDUP	Rounds a number up, away from zero.	=ROUNDUP(A1, 2)
=ROUNDDOWN	Rounds a number down, towards zero.	=ROUNDDOWN(A1, 2)

=SUMPRODUCT	Returns the sum of the products of corresponding ranges.	=SUMPRODUCT(A1:A5, B1:B5)
=CEILING	Rounds a number up to the nearest multiple of significance.	=CEILING(2.5, 1)
=FLOOR	Rounds a number down to the nearest multiple of significance.	=FLOOR(2.5, 1)
=VAR.S	Estimates variance based on a sample.	=VAR.S(A1:A10)
=STDEV.S	Estimates standard deviation based on a sample.	=STDEV.S(A1:A10)
Autosum	Automatically sums a range of data.	=SUM(A1:A10)
=ABS	Returns the absolute value of a number.	=ABS(-4)

Lookup Functions

Function	Description	Example
Index Match	Combines INDEX and MATCH for powerful lookups.	=INDEX(A1:C10, MATCH(E1, B1:B10, 0), 1)
=VLOOKUP	Looks for a value in the first column and returns a value in the same row from a specified column.	=VLOOKUP(D1, A1:C10, 2, FALSE)
=HLOOKUP	Looks for a value in the first row and returns a value in the same column from a specified row.	=HLOOKUP(D1, A1:F5, 3, FALSE)
=INDEX	Returns the value of an element in a table or an array, selected by the row and column number indexes.	=INDEX(A1:C10, 2, 3)
=MATCH	Searches for a value in a range and returns its relative position.	=MATCH(D1, A1:A10, 0)
=OFFSET	Returns a reference to a range that is a specified number of rows and columns from a cell or range of cells.	=OFFSET(A1, 2, 2)

Conditional Functions

Function	Description	Example
=IF	Returns a value if a condition is true, and another value if false.	=IF(A1 > 10, "Yes", "No")
=OR	Returns TRUE if any argument is TRUE.	=OR(A1 > 10, B1 < 5)
=XOR	Returns TRUE if an odd number of arguments is TRUE.	=XOR(A1 > 10, B1 < 5)
=AND	Returns TRUE if all arguments are TRUE.	=AND(A1 > 10, B1 > 5)
=NOT	Reverses the logic of its argument.	=NOT(A1 > 10)
=IFERROR	Returns a value if an error is found.	=IFERROR(A1/B1, "Error")

Data Types

Function	Description	Example
=ISNUMBER	Returns TRUE if the value is a number.	=ISNUMBER(A1)
=ISTEXT	Returns TRUE if the value is text.	=ISTEXT(A1)
=ISLOGICAL	Returns TRUE if the value is a logical value.	=ISLOGICAL(A1)
=N	Returns a value converted to a number.	=N(A1)
=VALUETOTEXT	Converts a value to text.	=VALUETOTEXT(A1)
=DATEVALUE	Converts a date in the form of text to a number that represents the date.	=DATEVALUE("10/10/2020")

Financial Functions

Function	Description	Example
=NPV	Calculates the net present value of an investment based on a series of periodic cash flows and a discount rate.	=NPV(0.1, A1:A10)
=XNPV	Returns the net present value for a schedule of cash flows that is not necessarily periodic.	=XNPV(0.1, A1:A10, B1:B10)
=XIRR	Returns the internal rate of return for a schedule of cash flows that is not necessarily periodic.	=XIRR(A1:A10, B1:B10)
=YIELD	Returns the yield on a security that pays periodic interest.	=YIELD(DATE(2022,1,1), DATE(2032,1,1), 0.05, 95, 100, 2)
=FV	Returns the future value of an investment.	=FV(0.05, 10, -1000, -10000)
=PV	Returns the present value of an investment.	=PV(0.05, 10, -1000, 0)
=PRICE	Returns the price per \$100 face value of a security that pays periodic interest.	=PRICE(DATE(2022,1,1), DATE(2032,1,1), 0.05, 0.06, 100, 2)
=SLN	Returns the straight-line depreciation of an asset.	=SLN(10000, 1000, 5)
=DB	Returns the declining balance depreciation of an asset for a specified period.	=DB(10000, 1000, 5, 1)
=DDB	Returns the double-declining balance depreciation of an asset for a specified period.	=DDB(10000, 1000, 5, 1)

Combining and Splitting Strings

Function	Description	Example
= "black" & "friday"	Combines two strings into one.	= "black" & "friday"

=REPT	Repeats text a given number of times.	=REPT("black", 3)
=TEXTSPLIT	Splits text into multiple columns or rows.	=TEXTSPLIT(A1, ";")

Mutating Strings

Function	Description	Example
=MID	Returns a specific number of characters from a text string starting at the position you specify.	=MID(A1, 2, 3)
=UPPER	Converts a text string to all uppercase letters.	=UPPER(A1)
=LOWER	Converts a text string to all lowercase letters.	=LOWER(A1)
=PROPER	Capitalizes the first letter of each word in a text string.	=PROPER(A1)

Data Manipulation

Function	Description	Example
=FILTER	Filters a range of data based on criteria you define.	=FILTER(A1:C10, B1:B10 > 50)
=SORT	Sorts the contents of a range or array.	=SORT(A1:A10, 1, TRUE)
=SORTBY	Sorts the contents of an array based on the values in a corresponding array.	=SORTBY(A1:A10, B1:B10, -1)
=UNIQUE	Returns a list of unique values in a list or range.	=UNIQUE(A1:A10)
=SEQUENCE	Generates a list of sequential numbers in an array.	=SEQUENCE(10, 1, 1, 1)