Basic Formulas

1. **SUM**

=SUM(A1:A10)

Adds all the numbers in a range of cells.

1. **AVERAGE**

=AVERAGE(A1:A10)

Returns the average (arithmetic mean) of the numbers in a range of cells.

1. **COUNT**

=COUNT(A1:A10)

Counts the number of cells that contain numbers.

1. **COUNTA**

=COUNTA(A1:A10)

Counts the number of cells that are not empty.

1. **MAX**

=MAX(A1:A10)

Returns the largest value in a set of values.

1. **MIN**

=MIN(A1:A10)

Returns the smallest value in a set of values.

Text Functions

1. **CONCATENATE** (or **CONCAT** in newer versions)

=CONCATENATE(A1, " ", B1)

Joins several text items into one text item.

1. **LEFT**

=LEFT(A1, 3)

Returns the first character(s) in a text string based on the number of characters specified.

1. **RIGHT**

=RIGHT(A1, 3)

Returns the last character(s) in a text string based on the number of characters specified.

1. **MID**

=MID(A1, 2, 3)

Returns a specific number of characters from a text string starting at the position you specify.

1. **LEN**

=LEN(A1)

Returns the number of characters in a text string.

1. **FIND**

=FIND("text", A1)

Finds one text value within another (case-sensitive).

Logical Functions

1. **IF**

=IF(A1 > 10, "Yes", "No")

Returns one value if a condition you specify is TRUE, and another value if it is FALSE.

1. **AND**

=AND(A1 > 10, B1 < 5)

Returns TRUE if all of its arguments are TRUE.

1. **OR**

=OR(A1 > 10, B1 < 5)

Returns TRUE if any argument is TRUE.

1. **NOT**

=NOT(A1 > 10)

Reverses the logic of its argument.

Lookup and Reference Functions

1. **VLOOKUP**

=VLOOKUP(A1, B1:D10, 2, FALSE)

Looks for a value in the leftmost column of a table, and then returns a value in the same row from a column you specify.

1. **HLOOKUP**

=HLOOKUP(A1, A1:C10, 2, FALSE)

Searches for a value in the top row of a table or array of values, and then returns a value in the same column from a row you specify.

1. **INDEX**

=INDEX(A1:C10, 2, 3)

Returns a value or reference of the cell at the intersection of a particular row and column, in a given range.

1. **MATCH**

=MATCH(A1, B1:B10, 0)

Searches for a specified item in a range of cells, and then returns the relative position of that item in the range.

Date and Time Functions

1. **TODAY**

=TODAY()

Returns the current date.

1. **NOW**

=NOW()

Returns the current date and time.

1. **DATE**

=DATE(2023, 12, 31)

Returns the serial number of a particular date.

1. **YEAR**

=YEAR(A1)

Converts a serial number to a year.

1. **MONTH**

=MONTH(A1)

Converts a serial number to a month.

1. **DAY**

=DAY(A1)

Converts a serial number to a day of the month.

Financial Functions

1. **PMT**

=PMT(interest\_rate, number\_of\_periods, present\_value)

Calculates the payment for a loan based on constant payments and a constant interest rate.

1. **FV**

=FV(interest\_rate, number\_of\_periods, payment, present\_value, [type])

Calculates the future value of an investment based on periodic, constant payments and a constant interest rate.

Miscellaneous Functions

1. **RAND**

=RAND()

Returns a random number between 0 and 1.

1. **RANDBETWEEN**

=RANDBETWEEN(1, 100)

Returns a random number between the numbers you specify.

1. **ROUND**

=ROUND(A1, 2)

Rounds a number to a specified number of digits.

1. **TRIM**

=TRIM(A1)

Removes all spaces from text except for single spaces between words.

These formulas cover a wide range of common tasks in Excel. If you have specific needs or more complex scenarios, please let me know!