

# [Excel formula and function essay sample](https://assignbuster.com/excel-formula-and-function-essay-sample/)

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Microsoft Office Excel is used to store data and crunch numbers in all types of businesses. The spreadhseet program’s power lies in Excel functions and Excel formulas, which allow all sorts of data analysis, from simple sums to standard deviations. Consider this Cheat Sheet your quick and easy Excel tutorial. Excel Functions You’re Likely to Use

Some Excel functions apply to specific subject areas, but others are general and apply to all needs. The following list shows an array of Excel functions used by one and all. Check here for a quickie reference to the purpose of each Excel function. Excel Function Description

SUM Calculates the sum of a group of values
AVERAGE Calculates the mean of a group of values
COUNT Counts the number of cells in a range that contains numbers INT Removes the decimal portion of a number, leaving just the integer portion ROUND Rounds a number to a specified number of decimal places or digit positions IF Tests for a true or false condition and then returns one value or another NOW Returns the system date and time

TODAY Returns the system date, without the time
SUMIF Calculates a sum from a group of values, but just of values that are included because a condition is met COUNTIF Counts the number of cells in a range that match a criteria Excel Text Functions You’ll Find Helpful

Excel’s text functions are very helpful when you’re working with names, addresses, customer lists, or any other text-based data. Here is list of Excel functions associated with text, along with a description of what each function does: Function Description

LEFT Extracts one or more characters from the left side of a text string RIGHT Extracts one or more characters from the right side of a text string MID Extracts characters from the middle of a text string; you specify which character position to start from and how many characters to include CONCATENATE Assembles two or more text strings into one REPLACE Replaces part of a text string with other text

LOWER Converts a text string to all lowercase
UPPER Converts a text string to all uppercase
PROPER Converts a text string to proper case
LEN Returns a text string’s length (number of characters) Excel Order of Operations to Keep in Mind
Mathematics dictates a protocol of how formulas are interpreted, and Excel follows that protocol. The following is the order in which mathematical operators and syntax are applied both in Excel and in general mathematics. You can remember this order by memorizing the mnemonic phrase, “ Pleaseexcuse my dear aunt Sally.” 1. Parentheses

2. Exponents
3. Multiplication and division
4. Addition and subtraction
Excel Cell References Worth Remembering
In Excel formulas, you can refer to other cells either relatively or absolutely. When you copy and paste a formula in Excel, how you create the references within the formula tells Excel what to change in the formula it pastes. The formula can either change the references relative to the cell where you’re pasting it (relative reference), or it can always refer to a specific cell. You can also mix relative and absolute references so that, when you move or copy a formula, the row changes but the column does not, or vice versa. Preceding the row and/or column designators with a dollar sign ($) specifies an absolute reference in Excel. Example Comment

= A1 Complete relative reference
=$A1 The column is absolute; the row is relative
= A$1 The column is relative; the row is absolute
=$A$1 Complete absolute reference
Excel Error Messages to Get to Know
If you create a formula in Excel that contains an error or circular reference, Excel lets you know about it with an error message. A handful of
errors can appear in a cell when a formula or function in Excel cannot be resolved. Knowing their meaning helps correct the problem. Error Meaning

#DIV/0! Trying to divide by 0
#N/A! A formula or a function inside a formula cannot find the referenced data #NAME? Text in the formula is not recognized
#NULL! A space was used in formulas that reference multiple ranges; a comma separates range references #NUM! A formula has invalid numeric data for the type of operation #REF! A reference is invalid

#VALUE! The wrong type of operand or function argument is used