

Excel® Formulas & Functions

Quick Reference Guide

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About Formulas and Functions

Formulas and Functions Terminology

Formulas are expressions that combine values, cell references, operators, and functions to perform calculations. They always start with an equal sign (=) and can include various elements such as numbers, text, cell references, and operators. For example, the formula **=A1+B1** adds the values in cells A1 and B1.

Functions are predefined formulas built into Excel that perform specific operations or calculations. Functions are expressed as: **function_name(arguments)**, where "function_name" represents the specific function to use, and "arguments" are the inputs or data on which the function operates. For example, to write a formula using the SUM function to add the values of cells A1 through A5, type **=SUM(A1:A5)**.

Arguments are the values used by a function. Arguments can refer to individual cells or cell ranges and must be enclosed within parentheses. Separate multiple arguments for a function with commas. An argument can also be another function (creating a nested function).

Constants are unchanging values. For example, the formula **=SUM(A1:A5)*10** always multiplies the sum of cell values in cells A1 through A5 by the value 10, which is the constant.

Operators are symbols specifying a calculation to perform, like addition, subtraction, or multiplication.

References identify either a cell, cell range, or named range of cell values to calculate. A single cell range is referred to by its upper-left and lower-right cell address, separated by a colon symbol. E.g. **A1:A5** refers to cells A1 through A5. Separate multiple, non-adjacent cell references with commas. E.g. **A1,B5:C7** refers to cells A1 and also B5 through C7.

Basic Formula Structure

Use **simple formula syntax** to perform multiple mathematical calculations on multiple cells. Use **ranged formula syntax** to perform a single mathematical function over multiple cells.

Simple Formula Syntax

=B2+B3+B4+B5

- 1 "Equal" Sign (starts every formula)
- 2 Mathematical Operators
- 3 Argument (Cell Addresses)

Mathematical Operators:

- + Addition
- Subtraction
- * Multiplication
- / Division
- % Percentage
- ^ Exponentiation

[] Determines the order of precedence. Designated operations are performed from left to right with anything in parentheses calculated first, then exponentiation, then multiplication and division, and finally addition and subtraction.

Ranged Formula Syntax

=SUM(B2:B5)

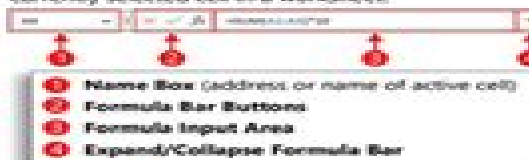
- 1 "Equal" Sign (starts every formula)
- 2 Function (Sum, Average, Min, Max, etc.)
- 3 Argument (Cell Range) (in parentheses)

Additional Symbolic Symbols:

- 1 Used to separate the first and last cells in a range
- 2 Used to separate items in a list. E.g. **A1:B3, C4:D5**
- 3 Used to denote an absolute reference

The Formula Bar

The Formula Bar appears below the Ribbon in Excel and is used to input, edit, and view formulas in the currently selected cell in a worksheet.



Creating a Formula

1. Select the cell in which to enter the formula.
2. Type the equal sign (=) to start the formula.
3. Type the rest of the formula.
4. Press the "Enter" key or the "Enter" button in the Formula Bar.

Cell Referencing and Naming

Standard Cell Referencing

To reference a cell manually in a worksheet, type the column and row intersection that references the cell, without spaces. For example, the cell at the intersection of column A, row 10, is referred to as A10.

Relative vs. Absolute Cell References

A relative reference (e.g. B2) changes when copied and pasted to a new location and maintains the relative position of the referenced cell(s) to the formula cell. Example: If a formula in cell H5 that adds cells "C5" through "G5" is copied and pasted into cell H6, it would add cells "C6" through "G6."

An absolute reference (e.g. \$A\$1) remains the same when copied and pasted to a new location and references the original cells. Change any cell reference in a formula into an absolute reference by placing a dollar sign (\$) in front of both the column letter and the row number in the cell reference.

To toggle between absolute, mixed, and relative references, select a cell reference and press "F4."

Referencing Cells in Different Worksheets

Use **3D formula syntax** to calculate information from multiple worksheets. Exclamation points separate sheet names from cell references. For example, to sum the values of cell B2 in Sheet1, Sheet2, and Sheet3:

=SUM(Sheet1:Sheet3!B2)

- 1 "Equal" Sign (starts every formula)
- 2 Function (Sum, Average, Min, Max, etc.)
- 3 Cell Range (always enclosed in parentheses)
- 4 Sheet Reference (sheet name)

Additional 3D Formula Syntax Symbols:

- 1 Used to separate sheet name from cell reference
- 2 Used to denote an absolute value
- 3 Used to separate sheet names in ranged 3D formulas
- 4 Used to separate individual sheet/cell references from each other. E.g. **=SUM(Sheet1!B2,Sheet2!B2,Sheet3!B2)**

Naming Cells and Cell Ranges

Name a cell or range of cells to enhance the clarity and readability of formulas, more easily reference and understand data, and simplify formula creation. For example, **=AVERAGE(Cos)** is clearer than **=AVERAGE(C512:C513)**.

Creating a Named Range

Name rules:

1. Must begin with a letter, underscore, or backslash.
2. Remaining characters must be alphanumeric, a period, or an underscore.
3. No spaces or cell references.
4. 255 maximum characters.
5. Names are not case sensitive.

To create a name:

1. Select the cell(s) to be named.
2. Type the name into the Name Box in the Formula Bar and press "Enter," or click the "Define Name" button in the "Defined Names" group on the "Formulas" tab in the Ribbon, type a name, and click the "OK" button.

Limiting the Scope of a Name

By default, you can reference a named range on any worksheet within a workbook. Use scope to limit the use of the named range to a single worksheet.

1. Select the cell(s) to be named.
2. Click the "Define Name" button in the "Defined Names" group on the "Formulas" tab in the Ribbon.
3. Select the worksheet to which to limit the name from the "Scope" drop-down, enter the name, and click the "OK" button.

Creating Multiple Names at Once

Use row or column labels to create named ranges.

1. Select the data and the labels.
2. Click the "Create from Selection" button in the "Defined Names" group on the "Formulas" tab in the Ribbon.
3. Select which values to use as names ("Top row," "Left column," etc.) and click "OK."



Creates seven named ranges. One for each column and row of data, plus "YTDSales" for B2 through D4.

Selecting a Named Range

Click the arrow to the right of the Name Box in the Formula Bar and select the name.

Using a Range Name in a Formula

Type the name directly into the formula. Or, press the "F3" key, select the name, and click "OK." Or, click the "Use in Formula" button in the "Defined Names" group on the "Formulas" tab in the Ribbon, then select the name.

Managing Range Names

1. Click the "Name Manager" button in the "Defined Names" group on the "Formulas" tab.
2. To sort names, click the column headings to switch between ascending and descending order.
3. To filter names, click the "Filter" button and select a filter. To remove it, select "Clear Filter."
4. To change the cells to which the name refers, select the name, make changes in the "Refers to" field, then click the "Accept" button.
5. To change a name, select it, click the "Edit" button, make changes, then click "OK."
6. To delete a name, select it, click the "Delete" button, then click "OK" to confirm.
7. Click the "Close" button.

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Excel Bible for Beginners Harjit Suman, 2020-05-12 Excel for Beginners Book Learn Microsoft Excel easily in this comprehensive Excel guide Author Harjit Suman has crafted a truly comprehensive guidebook which is also concise and clear in its explanations making it a handy guide that you could take with you and utilize anywhere Readers Favorite Reviewer Are you an Excel beginner Do you struggle working with Excel Do you look in envy at your colleagues who know their way around an Excel spreadsheet but you don't People are often frightened to learn Excel because of the vast array of tools and functions it offers and think it's too complicated or difficult You may use Excel on a daily basis but might not get the most out of it Well fear not as Excel Bible for Beginners The Essential Step by Step Guide to Learn Excel for Beginners will teach you everything you need to know about Excel in a clear easy to follow step by step guide so you can use Excel like a pro

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Excel It is simply a program that provides worksheets comprised of columns and rows Data are stored in the worksheet which is also called a spreadsheet It is kind of similar to the Microsoft Word table Still one edge of Excel is its skill in performing complex to simple mathematical functions and calculations especially when you are ready to create mathematical formulas Now next up we would briefly discuss the heart the fundamental necessity of Excel without it Excel becomes nothing And that s Excel s workbook and its worksheet spreadsheet An Excel spreadsheet or worksheet is a 2 dimensional grid with rows and columns The column names are lettered and the alphabet begins with A with the rows numbered in a chronological order starting with number one The cells as identified in the first row are A1 B1 and it goes on and on And as for the cells in the first column they are A1 A2 and it goes on and on These are called cell references or cell names Cell references are used in making mathematical functions or formulas for instance the formula to add contents C2 and D2 is C2+D2 I do hope you get the hint

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Practical Business Statistics Andrew F. Siegel,2011-03-04 Practical Business Statistics Sixth Edition is a conceptual realistic and matter of fact approach to managerial statistics that carefully maintains but does not overemphasize mathematical correctness The book offers a deep understanding of how to learn from data and how to deal with uncertainty while promoting the use of practical computer applications This teaches present and future managers how to use and understand statistics without an overdose of technical detail enabling them to better understand the concepts at hand and to interpret results The text uses excellent examples with real world data relating to the functional areas within Business such as finance accounting and marketing It is well written and designed to help students gain a solid understanding of fundamental statistical principles without bogging them down with excess mathematical details This edition features many examples and problems that have been updated with more recent data sets and continues to use the ever changing Internet as a data source Supplemental materials include companion website with datasets and software Each chapter begins with an overview showing why the subject is important to business and ends with a comprehensive summary with key words questions problems database exercises projects and cases in most chapters This text is written for the introductory business management statistics course offered for undergraduate students or Quantitative Methods in Management Analytics for Managers at the MBA level User friendly lively writing style Separate writing chapter aids instructors in teaching how to explain quantitative analysis Over 200 carefully drawn charts and graphs show how to visualize data Data mining is a theme that appears in many chapters often featuring a large database included on the website of characteristics of 20 000 potential donors to a worthy cause and the amount actually given in response to a mailing Many of the examples and problems in the sixth edition have been updated with more recent data sets and the ever changing Internet continues to be featured as a data source Each chapter begins with an overview showing why the subject is important to business and ends with a

comprehensive summary with key words questions problems database exercises projects and cases in most chapters All details are technically accurate Professor Siegel has a PhD in Statistics from Stanford University and has given presentations on exploratory data analysis with its creator while the book concentrates on the understanding and use of statistics by managers Features that have worked well for students and instructors in the first five editions have been retained

Microsoft Office 4.2 Survival Guide for Macintosh Charles Seiter,Tonya Engst,Barrie A. Sosinsky,1995 Featuring information on the most popular integrated package of software Microsoft Office this guide offers comprehensive coverage of Word Excel PowerPoint and Mail It covers the general nature and use of Microsoft Office and details the capabilities and functions of the program so readers have the proper orientation as they begin to learn the programs

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Table of Contents Use Excel Guide

1. Understanding the eBook Use Excel Guide
 - The Rise of Digital Reading Use Excel Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Use Excel Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Use Excel Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Use Excel Guide
 - Personalized Recommendations
 - Use Excel Guide User Reviews and Ratings
 - Use Excel Guide and Bestseller Lists
5. Accessing Use Excel Guide Free and Paid eBooks

- Use Excel Guide Public Domain eBooks
- Use Excel Guide eBook Subscription Services
- Use Excel Guide Budget-Friendly Options
- 6. Navigating Use Excel Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Use Excel Guide Compatibility with Devices
 - Use Excel Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Use Excel Guide
 - Highlighting and Note-Taking Use Excel Guide
 - Interactive Elements Use Excel Guide
- 8. Staying Engaged with Use Excel Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Use Excel Guide
- 9. Balancing eBooks and Physical Books Use Excel Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Use Excel Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Use Excel Guide
 - Setting Reading Goals Use Excel Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Use Excel Guide
 - Fact-Checking eBook Content of Use Excel Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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