

Excel® 2016 Functions & Formulas

Glossary



- Formula:** An equation in a cell that results in a new value.
- Function:** Pre-built formula that performs an operation on values resulting in one or more values.
- Argument:** The values used by a function. Multiple arguments separated by commas. Can be another function (creating a nested function).
- Constant:** An unchanging value.
- Operator:** Symbol specifying a calculation to perform. See **Controlling Order of Precedence** for more information.
- Reference:** A cell, range of cells, or a scope that represents a value or values. The order of precedence for references is:
 - ↳ Named Range.
 - ↳ R1C1 Reference.
 - ↳ Column letters.
- Boolean or logical value, TRUE or FALSE**

Controlling Order of Precedence

The order of precedence for symbols is: Arithmetic - Negative, % Percent, * Multiplication and Division, + and - Addition and Subtraction, Exponentiation, = Equals, < Less than, > Greater than, <= Less than or equal to, >= Greater than or equal to, <> Does not equal, ! Not parentheses to change order. E.g., = (1+2)*3 - 4/5*6/7

Conditionally Summing/Counting Data

The additional SUMIF and COUNTIF functions can be extended with SUMIFS and COUNTIFS to only add or enumerate cells that match certain criteria.

=SUMIF(range, criteria, sum_range)

Sums only numbers in range that match criteria. Optional sum_range allows cells summed to lie in a different range than cells matching criteria. E.g., =SUMIF(B1:B5,"<1") results in 4 if cells B1 through B5 contain 1, 2, 3, 4, 5.

=COUNTIF(range, criteria)

Counts text entries or numbers in range that match criteria.

Being Precise (Rounding)

Use Excel's various rounding functions when cells display slightly different values than what is actually stored. For example, Excel may display 5.12 due to formatting for two decimal places, but the number actually stored in the cell and used in calculations could be 5.124823.

Rounding Up or Down to a Multiple

=ROUND(number, number of digits)

Rounds to nearest integer, decimal place or multiple. Rounds a number to specified number of digits where number can refer to a cell and number of digits can be 0 - round to nearest integer. Positive - round to required decimal places. Negative - round to required multiples. E.g., =ROUND(3.4288, 2) rounds 3.4288 to 2 decimal places or 3.44. =ROUND(2562.34, -2) rounds 27,562.34 to the nearest 100, or 27,600.

=MROUND(number, multiple)

Rounds to a specified multiple. Rounds a positive number up and away from zero if the remainder of dividing number by multiple is >= half of multiple. Also rounds up and away from zero if negative, producing a larger negative. A positive number must have a positive multiple and a negative number a negative multiple. E.g., =MROUND(3.4278, 2) rounds 3.4278 up to the nearest multiple of 2 returning 4. =MROUND(27,562.34, -2) rounds -27,562.34 up to the nearest multiple of -2 returning -27,562.4.

Rounding Only One Way

=ROUNDUP(number, number of digit(s))

Same as ROUND but always rounds up and away from 0. FLOOR(ROUND always rounds down and toward 0.

=CEILING(number, significance)

Same as MROUND except always rounds up unless number is negative and significance is positive. E.g., =CEILING(3.1, 2) = 4. =CEILING(-3.1, 2) = -4. =CEILING(10.1, -2) = -12.

FLOOR is another function that counts down.

=CEILING.PRECISE(number, significance) FLOOR which always rounds up. FLOOR.PRECISE is the same as FLOOR but always rounds down.

=EVEN(number)

Same as ROUND but always rounds away from zero to the nearest even integer. ODD always rounds away from zero to the nearest odd integer.

=INT(number)

Rounds number down to the nearest integer.

Improving Clarity with Range Names

Use range names to help understand and manage cell references. Functions are more understandable if cell names are descriptive. For example, the iteration of =AVERAGE(A2:D200) is clearer than =AVERAGE(B2:D20).

Named Ranges

- Start with a letter, underscore or backslash.
- Cannot begin character only by alphanumeric, a period or an underscore.
- Do not use spaces, cell references (e.g., A100, B2C3), or just "C", "D", "E", or "F".
- Maximum 255 characters.
- Names can not case sensitive.

Creating a Name

1. Select the cell(s) to name.
2. Choose FORMULAS, then Define Name, or (Click) in the Name Box.



The Name Box shows the active cell address or, if defined, the range name.

1. Type a name for the range and press <Enter>.

Limiting the Scope of a Name

The scope to limit the workbook (W) within which the name is valid, allowing the same name to be used on different workbooks. To limit scope to a single workbook:

1. Choose FORMULAS, then Define Name.
2. Hit <In details>, specify SCOPE, then (Click) OK. The cells referred to can lie in a different workbook than the scope.

Defining a Constant or Formula for a Name

1. Choose FORMULAS, then Define Name.
2. Type the NAME, SCOPE, and optionally COMMENT.
3. In REFERS TO, type the constant or formula preceded by =. (Click) OK.

Creating Several Names at Once

Row or column labels can be used to create named ranges. Labels can be above, below, left or right of the data.

1. Select existing data and the labels.
2. Choose FORMULAS, then Create from Selection.
3. Specify which part of the selection to use as names, e.g., TOP ROW and/or LEFT COLUMN, (Click) OK.

For example:

| | A | B | C | D |
|-------------------|-----|------|------|------|
| 1. WTD Sales Data | | Q401 | Q402 | Q403 |
| 2. Unit | 100 | 100 | 100 | 1000 |
| 3. Central | 200 | 200 | 200 | 2000 |
| 4. West | 300 | 300 | 300 | 3000 |

Creates 7 named ranges. One for each column and row of data, plus a range called WTDSales for B2 through D4.

Example of Summing Selected Data

A toy manufacturer, Happy Toys, uses 5,000* to track worldwide shipment costs by country.

| | A | B | C | D |
|------------|---------------|-------------|-------------|---|
| 1. Country | UNITED STATES | 100,000 | 100,000 | |
| 2. US | 1,000,000 | 50,000,000 | 50,000,000 | |
| 3. Canada | 5,000,000 | 25,000,000 | 25,000,000 | |
| 4. UK | 20,000,000 | 100,000,000 | 100,000,000 | |
| 5. France | 10,000,000 | 50,000,000 | 50,000,000 | |
| 6. Japan | 50,000,000 | 250,000,000 | 250,000,000 | |
| 7. India | 5,000,000 | 25,000,000 | 25,000,000 | |

Cell D4 is \$3,571,000 because =SUMIF(B3:B6,"US",C3:C6) finds all "US" cells in B3:B6 (see same here C3:C6 counterparts).

Example of Being Precise

Happy Toys wants to set Canadian prices, multiplying US prices by the exchange rate (e.g. just 1.25) and round. Rounding up is always better for the business (i.e. so ROUND and MROUND are identified in favor of CEILING. Addition of Ceiling is required to satisfy Marketing's desire for Canadian price to always end in 99.

- Cell B5: =C4*1.25 results in 125,000,000 which is formatted to 125M with 2 decimals.
- Cell B7: =ROUND(B5,0) results in 125 which is formatted to 125.00 with 2 decimals.
- Cell B8: =MROUND(B5,0.75) results in 125.50. Cell B8 is rounded to the nearest 50 cents.
- Cell B9: =CEILING(B5,0.5) results in 200.00. Cell B9 is rounded up to the nearest 50 cents.
- Cell E12: =CEILING(B5,0.01-0.01) results in 125.99. One penny is subtracted from the result. This is the price selected by Marketing.

| | A | B | C |
|----------------|-----------|------------|------------|
| 1. US Price | 100,000 | 100,000 | 100,000 |
| 2. US | 1,000,000 | 50,000,000 | 50,000,000 |
| 3. Canadian | 1,250,000 | 62,500,000 | 62,500,000 |
| 4. Rounding | 1,250,000 | 62,500,000 | 62,500,000 |
| 5. Ceiling | 1,250,000 | 62,500,000 | 62,500,000 |
| 6. Final Price | 1,250,000 | 62,500,000 | 62,500,000 |

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Michael Brown



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