

# Excel® 2010 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. Can be another function (creating a nested function).
- Constant:** An unchanging value.
- Operator:** Symbol specifying a calculation to perform. The order of precedence for symbols is:
- Arithmetic: + Negative, % Percent, ^ Exponentiation, \* and / Multiplication and division, + and - Addition and subtraction
  - Comparison: = Equals, < Less than, > Greater than, <= Less than or equal to, >= Greater than or equal to, <> Does not equal
- Reference:** A cell, range of cells, or a name that represents a value or cell(s). The order of precedence for references is:
- : (colon) Range
  - (space) Intersection
  - , (comma) Union

## Conditionally Summing Data

The traditional **Sum()** and **Count()** functions can be extended with **SUMIF()** and **COUNTIF()** to only sum or count data that match certain criteria.

**=SUMIF(range, criteria, sum\_range)**

**=COUNTIF(range, criteria)**

Sums or counts only numbers in **range** that match **criteria**. Optional **sum\_range** allows cells summed to be in a different range than cells matching criteria. e.g. =SUMIF(B1:B5, "<0") results in -8 if B1:B5 = 1, -2, 3, -6, 10.

### Examples of Summing Selected Data

A toy manufacturer, Happy Toys, uses SUMIF to track worldwide shipment costs by country.

	A	B	C	D
2		Country	Shipment Cost	105.615
3		US	1,098.00	US Shipping
4		Canada	3,674.00	\$3,571.00
5		US	2,473.00	
6		India	8,674.00	
7		Japan	10,632.00	
8		India	8,980.00	

CELL D4 = \$3,571.00 because  
=SUMIF(B3:B8, "US", C3:C8) finds all "US" cells in B3:B8 then sums their C3:C8 counterparts.

## Being Precise (Rounding)

Use Excel's 12 rounding functions when cells display slightly different values than what is actually stored. For example, **ROUND** reduces the confusion when Excel sums a column of numbers with decimals to a different total than if you summed them manually.

### Round Up or Down to a Multiple

**=ROUND(number, number of digits)**

Rounds to nearest integer, decimal place or multiple of ten. 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 decimal places  
Negative = round to multiples of ten. Rounds up if the portion to be rounded is >= 5.  
e.g. =ROUND(2.4376, 2) rounds 2.4376 to 2 decimal places or 2.44  
=ROUND(67,562.34, -2) rounds 67,562.34 to the nearest 100, or 67,600.

**=MROUND(number, multiple)**

Rounds to a specified multiple.  
Rounds a positive **number** up and away from 0 if the remainder of dividing **number** by **multiple** is >= half of **multiple**. Also rounds up and away from 0 if negative, producing a larger negative.  
A positive **number** must have a positive **multiple** and a negative **number** a negative **multiple**.  
e.g. =MROUND(3.4376, 2) rounds 3.4376 up to the nearest multiple of 2 returning 4.  
=MROUND(-67,562.34, -0.2) rounds -67,562.34 up to the nearest multiple of -0.2 returning -67,562.4.

### Only Round One Way

**=ROUNDUP(number, number of digits)**

Same as **ROUND** but always rounds up and away from 0. **ROUNDDOWN** always rounds down and toward zero.

**=CEILING(number, significance)**

Same as **MROUND** except always rounds up unless number is negative and significance is positive. e.g.  
CEILING(10.1, 2) = 12  
CEILING(-9.9, 2) = -8  
CEILING(15.1, -2) = -12  
FLOOR is a similar function that rounds down.

**=CEILING.PRECISE(number, significance)**

Same as **CEILING** but 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 within a function. Functions are much easier to understand if their references display as words instead of numbers and letters. For example, the intention of the formula =AVERAGE(B3:B7) becomes clear when =AVERAGE(PurchasePrice) is used.

### Name Rules

- First character of a cell name must be a letter, underscore or backslash.
- Remaining characters must be alphanumeric, a period or an underscore.
- Do not use spaces, cell references (e.g. A100, B2C3), just "C", "C", "R", or "r".
- Restrict name length to 255 characters.
- Names are not case sensitive.

### Creating a Name

Simple names can be created via the worksheet's Name Box. Otherwise, the **FORMULAS, DEFINE NAME** method is preferred.

**SCOPE** is used within the **DEFINE NAME** method to limit the worksheet(s) within which the name is valid allowing the same name to be used on different worksheets. Also, **SCOPE** can restrict a name's use to a different worksheet than the cells it refers to.

- To create a range name select the cell(s) to name.
- Choose **FORMULAS, then [Go To Name]**.
- Type a name for the range and optionally select the **SCOPE**. Add a **COMMENT** (optional) then press <Enter>.

Names for constants or formulas are created in the same way except they must be preceded by = in **REFERS TO**. The Name Box shows the active cell address or, if defined, the range name.



### Creating Several Names at Once

Labels for rows or columns of existing data can be used to create named ranges. Labels can be above, below, left or right of the data.

- Select existing data and the labels.
- Choose **FORMULAS, then [Go To Create from Selection]**.
- 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	YTD Sales	Qtr1	Qtr2	Qtr3
2	East	123	551	844
3	Central	213	541	779
4	West	888	429	512

Creates 7 named ranges. One for each column and row of data, plus a range called YTD Sales for B3:D4.

### Examples of Being Precise

Happy Toys wants to set Canadian prices. Multiplying US prices by the exchange rate may not be market smart. Rounding up is always better for the bottom line so **ROUND** and **MROUND** are abandoned in favor of **CEILING**. Additional tinkering is required to satisfy Marketing's desire for Canadian prices to always end in 99.

CELL B6: =B3\*C3 results in 19.551.

CELL B7: =ROUND(B6\*C3, 0) results in 19.60. Cell B6 is rounded to the nearest single decimal.

CELL B8: =MROUND(B6\*C3, 0.5) results in 19.50. Cell B6 is rounded to the nearest 50 cents.

CELL B9: =CEILING(B3\*C3, 0.5) results in 20.00. Cell B6 is rounded up to the nearest 50 cents.

CELL B10: =CEILING(B3\*C3, 0.5)-0.01 results in 19.99. One penny is subtracted from cell B9. This is the price selected by Marketing.

	A	B	C
2		US Prices	Ex Rate
3		19.19	1.0188
4			
5		Canadian Prices	Function Used
6		19.551	
7		19.60	ROUND
8		19.50	MROUND
9		20.00	CEILING
10		19.99	CEILING

# Excel 2010 Formulas Cheat Sheet

**G Psacharopoulos**



## **Excel 2010 Formulas Cheat Sheet:**

## Whispering the Techniques of Language: An Psychological Quest through **Excel 2010 Formulas Cheat Sheet**

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### **Table of Contents Excel 2010 Formulas Cheat Sheet**

1. Understanding the eBook Excel 2010 Formulas Cheat Sheet
  - The Rise of Digital Reading Excel 2010 Formulas Cheat Sheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Excel 2010 Formulas Cheat Sheet
  - 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 Excel 2010 Formulas Cheat Sheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Excel 2010 Formulas Cheat Sheet
  - Personalized Recommendations

- Excel 2010 Formulas Cheat Sheet User Reviews and Ratings
- Excel 2010 Formulas Cheat Sheet and Bestseller Lists
- 5. Accessing Excel 2010 Formulas Cheat Sheet Free and Paid eBooks
  - Excel 2010 Formulas Cheat Sheet Public Domain eBooks
  - Excel 2010 Formulas Cheat Sheet eBook Subscription Services
  - Excel 2010 Formulas Cheat Sheet Budget-Friendly Options
- 6. Navigating Excel 2010 Formulas Cheat Sheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Excel 2010 Formulas Cheat Sheet Compatibility with Devices
  - Excel 2010 Formulas Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Excel 2010 Formulas Cheat Sheet
  - Highlighting and Note-Taking Excel 2010 Formulas Cheat Sheet
  - Interactive Elements Excel 2010 Formulas Cheat Sheet
- 8. Staying Engaged with Excel 2010 Formulas Cheat Sheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Excel 2010 Formulas Cheat Sheet
- 9. Balancing eBooks and Physical Books Excel 2010 Formulas Cheat Sheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Excel 2010 Formulas Cheat Sheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Excel 2010 Formulas Cheat Sheet
  - Setting Reading Goals Excel 2010 Formulas Cheat Sheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Excel 2010 Formulas Cheat Sheet
  - Fact-Checking eBook Content of Excel 2010 Formulas Cheat Sheet

- 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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web mar 26 2016 and it is not poles per phase but rather poles or pole pairs for example you have a two pole motor or a

motor with one pole pair which is the same the synchronous speed of a induction motor is  $n_s = \frac{60}{p}$  of pole pairs the picture below is a representation of magnetic flux of 2 pole vs 4 pole machine

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