

Continue

158564634399 4035831.1612903 21475507.523077 53726916.407407 7917647.4285714 1425937.4901961 1215813.1639344 8584830.6710526 17122942.205128 167922634334 1305967242 7859843450 6296293392 24696493.064935 140096578944 107800243850 16804209132 51205686.666667 2349329.8767123 9170380464

Excel® 2013 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 name that represents a value or cells. The order of precedence for references is: - (colon) Range - (space) Intersection - (comma) Union
Boolean or logical value, TRUE or FALSE.	

Controlling Order of Precedence

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. Use parentheses to change order.

E.g., = (TODAY() - ImrooDate) / 30

Conditionally Summarizing/Counting Data

The traditional SUM and COUNT functions can be extended with SUMIF and COUNTIF 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 to be summed to be in a different range than cells matching criteria.

E.g., =SUMIF(B1:E5, <>"") results in =B1 cells B1 through E5 contain 0, -1, 3, 6, 10.

=COUNTIF(criteria)

Counts total entries or numbers in range that match criteria.

Examples of Summarizing Selected Data

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

	A	B	C	D
1				
2	Country	Shipping Cost	US Total	Intl Total
3	US	1.00	100	300
4	Canada	1.4750	147.50	442.50
5	UK	2.4750	247.50	742.50
6	India	8.7400	874.00	2622.00
7	Japan	22.4200	2242.00	6726.00
8	India	8.7500	875.00	2625.00

CELL D4 is \$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 various rounding functions when cells display slightly different values than what is actually stored. For example, Excel may display 5.12 instead of formattting 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 to round to integer.

Positive = round to required decimal places.
 Negative = round to required integer.

E.g., =ROUND(0.4376, 2) rounds 0.4376 to 2 decimal places or 2.44.
 =ROUND(67562.34, -2) rounds 67,562.34 to the nearest 100, or 67,600.

=MROUND(number, multiple)

Rounds to a specified multiple.

Returns 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 must have a negative multiple.

E.g., =MROUND(3.4376, 0.2) rounds 3.4376 up to the nearest multiple of 0.2 returning 4.

=MROUND(67562.34, -0.2) rounds 67,562.34 up to the nearest multiple of -0.2 returning -67,562.4.

Rounding One Way

=ROUNDNUMBER(number, number of digits)

Same as ROUND but always rounds up and away from zero. ROUNDNUMBER 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(0.1, 2) = 21,

=CEILING(4.8, 2) = 4,

=CEILING(-10.1, -2) = -12.

Flor or is a similar function that rounds down.

=CEILING.PRECISE(number, significance)

ISO version 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)

Round number down to the nearest integer.

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 =C3*C3 results in 19.550772 which is formatted to 19.55 with 3 decimal places.

CELL B7 =ROUND(D6,0) results in 19.6 which is formatted to 19.60 with 2 decimal places.

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

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

CELL B10 =CEILING(B6, 0.5)-0.01 results in 19.99. One penny is subtracted from the result. This is the price selected by Marketing.

Improving Clarity with Range Names

The range names help us understand and manage cell references. Functions are more understandable if references are descriptive. For example, the intention of =MROUND(B2,B3) is clearer than =AVERAGE(B2:B3).

Name Rules

- Start with a letter, underscore or backslash.

- Remaining characters may be alphanumeric, a period or an underscore.

- Do not use spaces, cell references (e.g., A10, B2C3), or just "C", "C:", "R:", or "R".

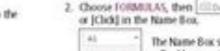
- Maximum 255 characters.

- Names are not case sensitive.

Creating a Name

- Select the cell(s) to name.

- Choose FORMULAS, then [Define Name].



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

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

Limiting the Scope of a Name

Use scope to limit the worksheet(s) within which the name is valid allowing the same name to be used on different worksheets. To limit scope to a single worksheet:

- Choose FORMULAS, then [Define Name].

- Fill in details. Specify SCOPE, then [OK] OK.

The cells referred to can be in a different worksheet than the scope.

Defining a Constant or Formula for a Name

- Choose FORMULAS, then [Define Name].

- Type the NAME, SCOPE, and optionally COMMENT.

- In REFERS TO, type the constant or formula preceded by = [OK] 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.

- Select existing data and the labels.

- Choose FORMULAS, then [Create从 Selection].

- Specify which part of the selection to use as names.

E.g., TOP ROW and LEFT COLUMN.

For example:

	A	B	C	D
1	US Sales QTR1	100	300	400
2	US	333	999	1333
3	Canada	222	666	888
4	West	666	222	333

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

Examples of Being Precise

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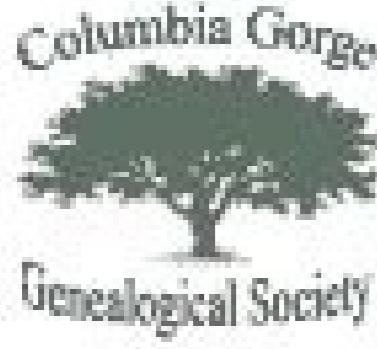
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Category	Item Type	Most Added	Most Down	Change In	Change %
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Name of Process	Value of γ	$P - V - T$ Relationships			Heat Added Q_2 kJ	Work Done W_2 kJ	Change in Internal Energy $U_2 - U_1$ kJ	Change in Enthalpy $H_2 - H_1$ kJ	Change in Entropy $S_2 - S_1$ J/K
		$P - V$	$T - P$	$T - V$					
Constant Volume $V = \text{Const.}$	∞	—	$\frac{T_2}{T_1} = \frac{P_2}{P_1}$	—	$mC_v(T_2 - T_1)$	0	$mC_v(T_2 - T_1)$	$mC_p(T_2 - T_1)$	$mC_v \log_e \frac{T_2}{T_1}$
Constant Pressure $P = \text{Const.}$	0	—	—	$\frac{T_2}{T_1} = \frac{V_1}{V_2}$	$mC_p(T_2 - T_1)$	$P(V_2 - V_1)$	$mC_v(T_2 - T_1)$	$mC_p(T_2 - T_1)$	$mC_p \log_e \frac{T_2}{T_1}$
Isothermal $T = \text{Const.}$	1	$\frac{P_2}{P_1} = \frac{V_1}{V_2}$	—	—	$mRT \log_e \frac{P_1}{P_2}$	$mRT \log_e \frac{P_1}{P_2}$	0	0	$mR \log_e \frac{P_1}{P_2}$
Ientropic* $S = \text{Const.}$	γ	$\frac{P_2}{P_1} = \left(\frac{V_1}{V_2}\right)^\gamma$	$\frac{T_2}{T_1} = \left(\frac{P_1}{P_2}\right)^{\frac{1}{\gamma-1}}$	$\frac{T_2}{T_1} = \left(\frac{V_1}{V_2}\right)^{\frac{1}{\gamma-1}}$	0	$mC_v(T_2 - T_1)$	$mC_v(T_2 - T_1)$	$mC_p(T_2 - T_1)$	0
Polytropic $PV^\gamma = \text{Const.}$	γ	$\frac{P_2}{P_1} = \left(\frac{V_1}{V_2}\right)^\gamma$	$\frac{T_2}{T_1} = \left(\frac{P_1}{P_2}\right)^{\frac{1}{\gamma-1}}$	$\frac{T_2}{T_1} = \left(\frac{V_1}{V_2}\right)^{\frac{1}{\gamma-1}}$	$mC_v(T_2 - T_1)$	$\frac{mR}{\gamma-1}(T_1 - T_2)$	$mC_v(T_2 - T_1)$	$mC_p(T_2 - T_1)$	$mC_v \log_e \frac{T_2}{T_1}$

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Equation Sheet

<u>Constants</u>		
Coulomb's law	$k = 8.99 \cdot 10^9$	Nm^2/C^2
	$= \frac{1}{4\pi\epsilon_0}$	
Permittivity	$\epsilon_0 = 8.85 \cdot 10^{-12}$	C^2/Nm^2
Permeability	$\mu_0 = 4\pi \cdot 10^{-7}$	Tm/A
Electron charge	$-e = -1.60 \cdot 10^{-19}$	C
Speed of light	$c = 3.8 \cdot 10^8$	m/s

Forces		
Coulomb:	$k \frac{q_1 q_2}{r^2}$	qE
Lorentz:	$qv \times B$	$lI \times B$
Centripetal:	$\frac{mv^2}{r}$	

Fields	
point charge	$E = k \frac{Q}{r^2}$
infinitesimal Coulomb	$E = k \frac{dQ}{r^2} \cdot r$
given a potential	$E_x = -\frac{\partial V}{\partial x}$
infinite straight current	$B = \frac{\mu_0 I}{2\pi r}$
solenoid	$B = K_u \mu_0 I n, \quad n = N/l$
infinitesimal Biot-Savart	$d\vec{B} = \frac{\mu_0 I}{4\pi} \frac{d\vec{l} \times \vec{r}}{r^2}$

Flux	
in general	$\Phi_X = \oint \vec{X} \cdot d\vec{A}$
uniform \vec{X}	$\Phi_X = \vec{X} \cdot \vec{A}$
outflux	$\Phi_X > 0$
influx	$\Phi_X < 0$

<u>Maxwell's Equations</u>	
(Gauss)	$\oint \vec{E} \cdot d\vec{A} = Q_{enc}/\epsilon_0$
	$\oint \vec{B} \cdot d\vec{A} = 0$
(Faraday)	$\oint \vec{E} \cdot d\vec{l} = -\frac{\partial \Phi_B}{\partial t} (= \mathcal{E})$
(Ampere)	$\oint \vec{B} \cdot d\vec{l} = \mu_0 I_{enc} + \mu_0 \epsilon_0 \frac{\partial \Phi_E}{\partial t}$

Electric Potential	
point charge	$k \frac{q}{r}$
infinitesimals	$dV = \int k \frac{dq}{r}$
given a field	$V_{ab} = - \int_a^b \vec{E} \cdot d\vec{r}$

<u>Potential Energy</u>	
point charges	$k \frac{q_1 q_2}{r}$
point charge and field	qV
capacitor	$\frac{1}{2} QV = \frac{1}{2} CV^2 = \frac{Q^2}{2C}$
inductor	$\frac{1}{2} L I^2$

<u>Miscellaneous</u>	
transformer	$\frac{V_o}{V_p} = \frac{N_o}{N_p}$
magnetic moment of current loops	$\vec{\mu} = N\vec{A}$
torque	$\vec{\tau} = \vec{r} \times \vec{F}$
torque on a magnet	$\vec{\tau} = \vec{\mu} \times \vec{B}$
parallel plate capacitance	$C = K\epsilon_0 \frac{A}{d}$
RC circuit	$Q = Q_0 e^{-t/\tau}, \quad \tau = RC$

Name: _____
Date: _____

Rounding Numbers

When rounding, the digit to the right of the requested rounding digit will always tell you whether to round up or down and all digits to the left will stay the same.

Rule 1 Determine what your rounding digit is and look to the right side of it. If the digit is 1,2,3 or 4 do not change the rounding digit. All digits that are on the right hand side of the requested rounding digit will become 0.

Rule 2, Determine what your rounding digit is and look to the right of it. If the digit is 5,6,7,8 or 9, your rounding digit rounds up by one number. All digits that are on the right hand side of the requested rounding digit will become 0.

Round to the nearest 10 - Examples: 43 = 40 257 = 260 1490 = 1490 1375 = 1380
(Rounding digit is in the tens place)

- 1.) 47 _____ 2.) 51 _____ 3.) 65 _____ 4.) 22 _____
5.) 43 _____ 6.) 99 _____ 7.) 86 _____ 8.) 28 _____
9.) 77 _____ 10.) 24 _____ 11.) 55 _____ 12.) 21 _____
13.) 21 _____ 14.) 56 _____ 15.) 94 _____ 16.) 88 _____
17.) 11 _____ 18.) 16 _____ 19.) 15 _____ 20.) 33 _____

Round to the nearest 10

- 1.) 407 _____ 2.) 4 51 _____ 3.) 635 _____ 4.) 225 _____
5.) 432 _____ 6.) 929 _____ 7.) 806 _____ 8.) 328 _____
9.) 677 _____ 10.) 245 _____ 11.) 551 _____ 12.) 218 _____
13.) 291 _____ 14.) 556 _____ 15.) 394 _____ 16.) 888 _____
17.) 11 1 _____ 18.) 616 _____ 19.) 125 _____ 20.) 336 _____

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