

EXCEL 2013 FORMULAS

A *workbook* is merely a lifeless collection of numbers and text until you define some kind of relationship among the various entries. You do this by creating formulas that perform calculations and produce results. This chapter takes you through some formula basics, including constructing simple arithmetic and text formulas, understanding the all-important topic of operator precedence, copying and moving worksheet formulas, and making formulas easier to build and read by taking advantage of range names.



Understanding Formula Basics

Most worksheets are created to provide answers to specific questions: What is the company's profit? Are expenses over or under budget, and by how much? What is the future value of an investment? How big will an employee's bonus be this year? You can answer these questions, and an infinite variety of others, by using Excel formulas.

All Excel formulas have the same general structure: an equal sign (=) followed by one or more operands, which can be values, cell references, ranges, range names, or function names, separated by one or more operators, which are symbols that combine the operands in some way, such as the plus sign (+) and the greater-than sign (>).

NOTE

Excel doesn't object if you use spaces between operators and operands in your formulas. This is actually a good practice to get into because separating the elements of a formula in this way can make them much easier to read. Note, too, that Excel also accepts line breaks in formulas. This is handy if you have a very long formula because it enables you to "break up" the formula so that it appears on multiple lines. To create a line break within a formula, press Alt+Enter.

Formula Limits in Excel 2013

It's a good idea to know the limits Excel sets on various aspects of formulas and worksheet models, even though it's unlikely that you'll ever bump up against these limits. Formula limits that were expanded in Excel 2007 remain the same in Excel 2013. So if you're coming to Excel 2013 from Excel 2003 or earlier, Table 3.1 shows you the updated limits.

Table 3.1. Formula-Related Limits in Excel 2013

Object	Excel 2013 Maximum	Excel 2013 Maximum
Columns	16,384	1,024
Rows	16,384	1,024
Formula length (characters)	8,192	1,024
Function arguments	255	30
Formula nesting levels	64	7
Array references (rows or columns)	Unlimited	65,535
PivotTable columns	16,384	255
PivotTable rows	1,048,576	65,536
PivotTable fields	16,384	255
Unique PivotField items	1,048,576	32,768

* Formula nesting levels refers to the number of expressions that are nested within other expressions using parentheses.

Entering and Editing Formulas

Entering a new formula into a worksheet appears to be a straightforward process:

1. Select the cell in which you want to enter the formula.
2. Type an equal sign (=) to tell Excel that you're entering a formula.
3. Type the formula's operands and operators.
4. Press Enter to confirm the formula.



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