Add numbers like a champ



More about the SUM function

In some of the above tips, we taught you how to use the SUM function. Here are more details about it. Double-click a yellow cell on the right, and then read along with the text below.

If the SUM function could talk, it would say this:



Here's another way it can be used:

Sum the	the	the values	and
following:	value in	in cells G48,	100.
	cell D48	G49, G50,	
		and G51	
=SUM (I	048,G4	8:G51,10	20)

The formula above uses the following:

• A single cell reference, which is the "address" or "name" of a cell. D48 is the single cell reference in the formula above.

• A range of cells, which is a series of cells starting at one cell and ending at another. G48:G51 is the range of cells in the formula.

• A constant. The constant in this formula is the number 100.

More about the SUMIF function

We also showed you the SUMIF function at the top of this sheet. The SUMIF function sums up totals based on a criterion. If the SUMIF function could talk, it would say this:

Sum up some	Look through	and if the
values based	these cells	value is
on this		greater than
criterion:		50, sum it up.
=SUMIF (D73:D77,	'>50")

NOTE: If you find you are making a lot of SUMIF formulas, you might find that a PivotTable is a better solution. See the PivotTable worksheet for more information.





EXTRA CREDIT Try adding another SUMIF formula here, but add

amounts that are less than 100. The result should be 160.



IMPORTANT DETAIL Double-click this cell. You'll notice the 100 toward the end.

Item Bread Donut Cook

Although it's possible to put numbers in a formula like this, Although it's possible to put numbers in a formula like this, we don't recommend it unless lit's absolutely necessary. This is known as a **constant**, and it's easy to forget that it's there. We recommend referring to another cell instead, like cell D16. That way it's easily seen and not hidden inside a formula.

Item	Amount	Item	Amount	
Bread	50	Bread	50	
Donuts	100	Donut	s 100	
Cookies	40	Cookie	s 40	
Cakes	50	Cakes	50	
Pies	20	Pies	20	
	100		200	

Double-click this cell and you'll see that the formula is different. Specifically, the sum criteria is ">=50" which means greater than or equal to 50. There are other operators you can use like "<=50" which is less than or equal to 50. And there's "<>50" which is not equals 50.

Save time by filling cells automatically





EXTRA CREDIT Click and drag to select

these four cells, and then press CTRL+D. That's the shortcut key for filling down. Can you guess what the shortcut for filling *right* is?

Use the fill handle to copy cells

Sometimes you don't need the numbers to change as you fill. Instead, you just want to copy values to other adjacent cells. Here's how to do that:



Click the cell with the word **Produce**. Rest your cursor on the lower-right corner of the cell until it becomes a cross, then drag down three cells.

Now select the cell with the word **Fruit**. Rest your cursor on the lower- right corner again, and when you get the cross, double-click. That's another way to fill down in case you ever need to fill a long column.

Fill a series

Excel can automatically fill some cells based on a series. For example, you can type Jan in one cell, and then fill the other cells with Feb, Mar, etc.



Rest your cursor on the lower-right corner of the cell until it becomes a cross, then drag right two cells. Excel detects a series, and fills in **Feb** and **Mar** for you.

Now select the cell with Week 1.

Click the cell with the word Jan.

Rest your cursor on the lower-right corner again, and when you get the cross, double-click it.

More information on the web Fill data automatically in worksheet cells Fill a formula down into adjacent cells Back to top Next step



EXPERIMENT

Ъ Г Dept.

Produce Fruit

Category

Product

Apple

Orange

Banana

Pears

100

200

50

100

Select these two cells, and then drag the fill handle to the right. Excel fills the series in increments of 15. Try changing 15 and 30 to other values, like 1 and 1.8. Or, Mon and Wed. Or, January and March. And then fill to the right again... see what happens!

