Excel 365 Advanced

Sample manual - first two chapters



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CHAPTER 1 - FORMULAE AND FUNCTIONS

1.1 Basic Formulae

You can type a *formula* into a cell to calculate a new value based on data you've already entered:



All formulae begin with an = sign. This takes the value in cell **C2**, and divides it by the value in cell **B2**.

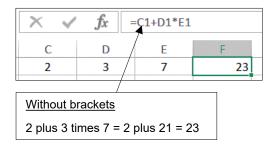
Operators

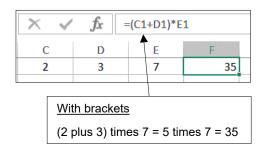
Operators are the symbols that tell Excel to add, subtract, etc. The common ones used are:

Symbol	What it means	Example	Result (if B2 = 5 and C2 = 2)
+	To add	= B2 + C2	7
-	To subtract	= B2 - C2	3
*	To multiply	= B2 * C2	10
/	To divide	= B2 / C2	2.5
٨	To take to the power of	= B2 ^ C2	25 (ie 5 ²)
&	Concatenation (joining)	= B2 & C2	52 (ie 5 and 2 joined together)

Brackets in Formulae

Brackets force Excel to calculate some parts of a formulae first (in Excel multiplication/division normally occur before addition/subtraction, but you can override this). For example:





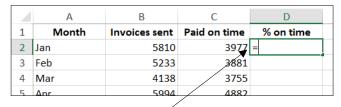


Remember your **BODMAS**! This natty acronym gives the order in which calculation rules are applied, as shown on the right.

B rackets
O ver
D ivision
M ultiplication
A ddition
S ubtraction

1.2 Creating Formulae

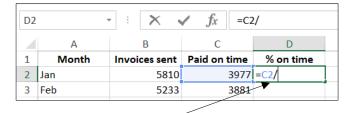
Here's how to create a typical formula, such as the one shown on the previous page:



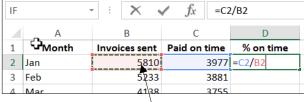
a) Click in the cell where you want to put your answer, and type an = sign to begin your formula.



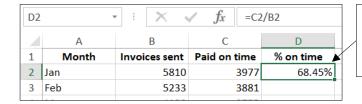
 b) Click on the first cell to use in your calculation, or type in its cell reference (here it's C2).



c) Type in an operator (here we type / to show we want to divide by something).



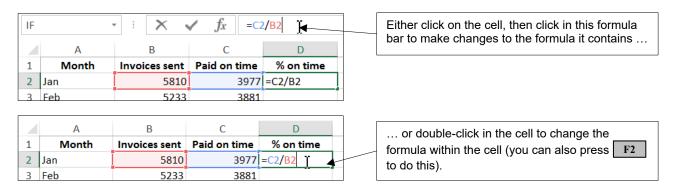
d) Click on the next cell that you want to reference, or type in the cell address (here it's **B2**).



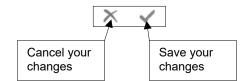
e) Press or click on the tick symbol to confirm your formula (here we've also formatted the cell containing the answer, so that it appears as 68.45% rather than 0.6845).

1.3 Editing Formulae

After you've created a formula, you can edit it in a couple of ways:



Whichever method you choose, press when you've finished to save your changes, or to cancel them, or click on one of the tools shown below:



1.4 Copying Formulae

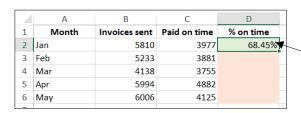
When you copy a formula containing cell references to other cells, Excel will automatically update the cell references.



This key feature of spreadsheets is called relative cell referencing, and is explained in more detail overleaf.

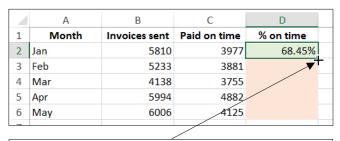
The Easiest Way to Copy a Formula

You can copy any formula up, down, left or right. Here's an example of copying a formula down.



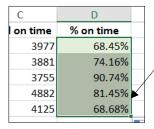
In this example we want to copy this formula down to work for the other four months too.

To copy this formula down:



	Α	В	С	D
1	Month	Invoices sent	Paid on time	% on time
2	Jan	5810	3977	68.45%
3	Feb	5233	3881	
4	Mar	4138	3755	
5	Apr	5994	4882	
6	May	6006	4125	
7				

- a) Position the mouse button at the bottom right corner of the cell that you want to copy, so that it turns into what's called the **AutoFill** handle (a black cross).
- b) Click and drag down to highlight the cells beneath when you release the mouse button, Excel will copy the formula down.



The formula give different numbers because they're referring to different cells, as can be seen from looking at the bottom figure of 68.68%.

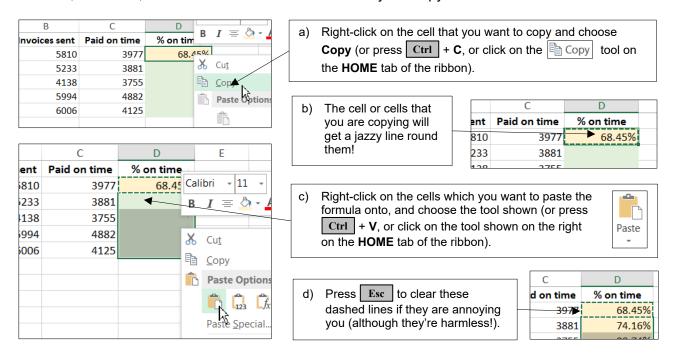
	Α	В	С	D
1	Month	Invoices sent	Paid on time	% on time
2	Jan	5810	3977	68.45%
3	Feb	5233	3881	74.16%
4	Mar	4138	3755	90.74%
5	Apr	5994	4882	81.45%
6	May	6006	4125	=C6/B6
7				



Actually, an even easier way to copy a formula down is to double-click when you get the AutoFill handle. Excel will then copy the formula down almost by magic, using the column immediately to the left to determine how far to go. Note that this only works when copying down (you can't use it to copy up, right or left).

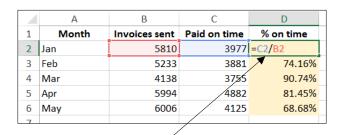
Other Ways to Copy a Formula

You can, of course, use all of the standard Windows ways to copy formulae too!

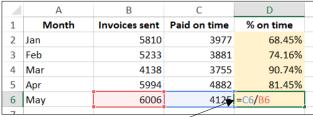


How Relative Cell Referencing Works

When you copy a formula, Excel uses relative cell referencing:



The original formula is read by Excel as: "take the cell one to the left on the same row, and divide it by the cell two to the left on the same row".



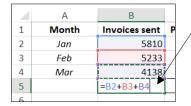
The copied formulae all do exactly the same thing, but give different results because they refer to cells on different rows!



There is a way in Excel to turn this behaviour off and use absolute referencing instead (this is covered in a later courseware chapter, including examples showing why you'd want to do this).

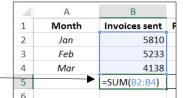
1.5 Functions

A function can be used in a formula to perform specialised calculations. Here's an example:



You could calculate the total for this column by adding each individual cell together ...

... but it's more efficient to use the **SUM** function, which will add together all of the values in a range of cells.





There are hundreds of functions in Excel, covering everything from summing cells through to advanced financial, statistical and mathematical calculations.

Basic Functions

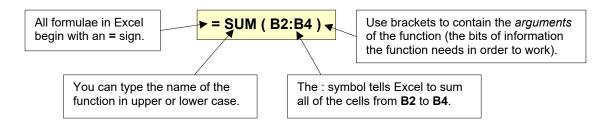
Here are four of the most commonly used functions in Excel:

1 Month Sales 2 Jan 5810 3 Feb 5233 4 4138 Mar 5 6 Month 1-3 statistics 8 Result **Formula** 9 15,181.00 =SUM(B2:B4) Total 5,060.33 10 **Average** =AVERAGE(B2:B4) Maximum 5810 =MAX(B2:B4) 11 12 =MIN(B2:B4) Minimum 4138

Here we've used four functions to work out the sum and average of the 3 sales figures for **Jan**, **Feb** and **Mar**, and also the highest and lowest of them.

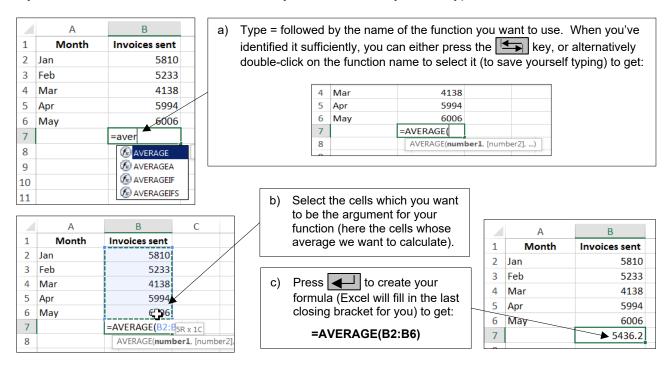
Structure of a Function

All Excel functions have the same structure:



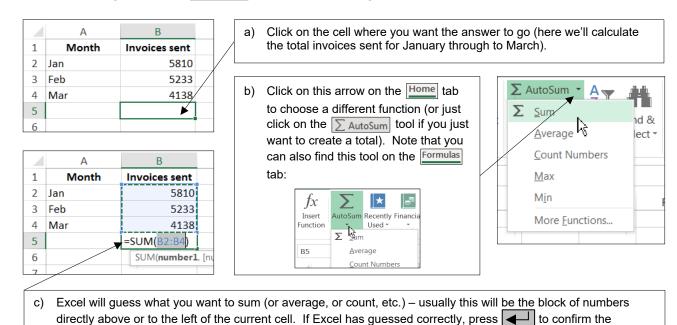
Typing a Function

If you know the name of the function that you want to use, you can type it into a cell:



Using AutoSum to Create Quick Totals, Averages, Etc.

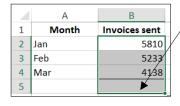
For the basic functions of summing, averaging, counting and taking the maximum or minimum value in a range, use the \(\subseteq \text{AutoSum} \) tool to speed things up:



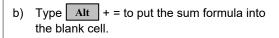
formula; otherwise select the block of cells you did want to work with, or press | Esc | to cancel your formula.

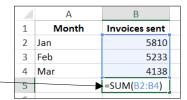
The Quickest Way to Sum

People sum so frequently in Excel that there is a short-cut key devoted to it:



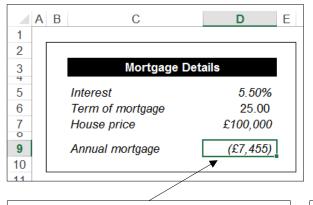
a) Select the block of cells you want to sum and the blank cell where the answer should go.

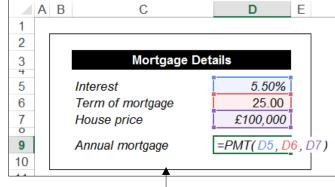




The Function Wizard

The best way to choose a function in Excel is to use the *function wizard*. To show how to use this, consider this example:

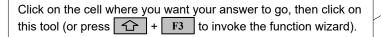


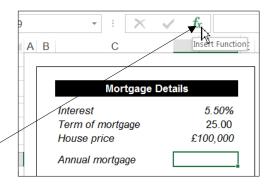


We want to work out the annual mortgage on a £100,000 broom cupboard in London, given a 25 year term and an interest rate of 5.5%.

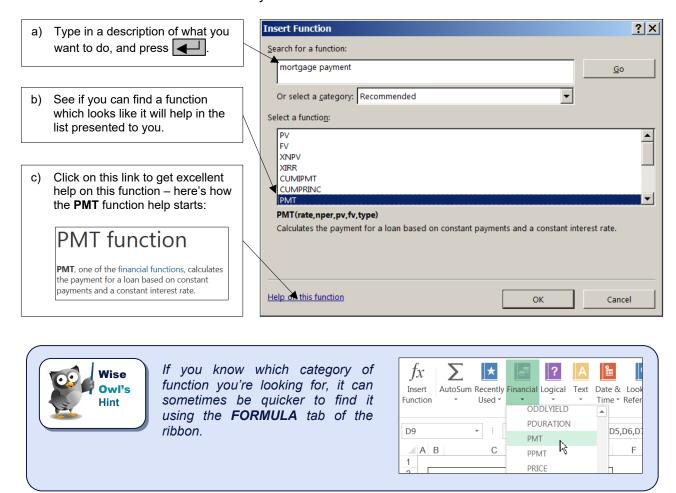
As always in Excel, there's an app for this (although in Excel they're called functions, not apps). Here we'll use the **PMT** function (which stands for **PayMenT**, before you ask).

You're unlikely to be able to guess that this function exists, so here's how to find it (or any other function for that matter). First invoke the wizard:

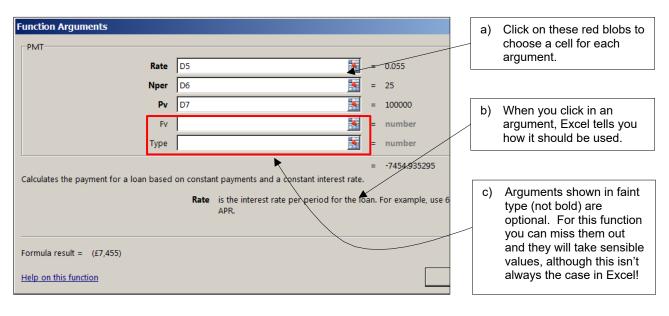




You can now choose which function you want to work with:

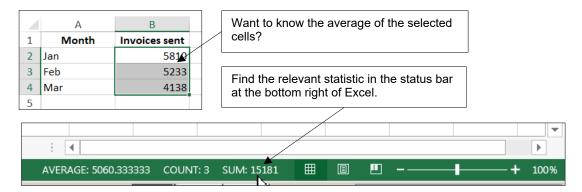


Finally, select ok in the above dialog box. You can now complete your function:

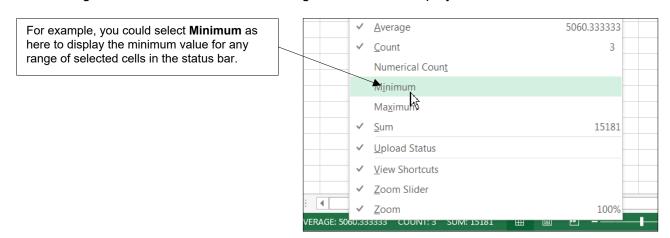


1.6 Status Bar Calculations

A quick way to view the results of formulae is to use the status bar:



You can right-click on the status bar to change the statistics displayed:



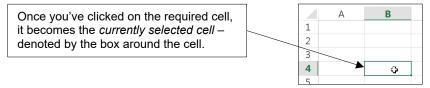
CHAPTER 2 - MOVING AND SELECTING IN EXCEL

2.1 Moving Around in Excel

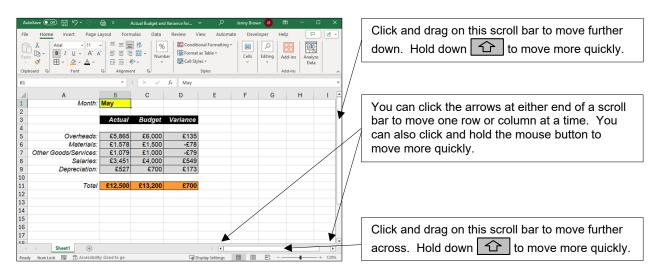
To be able to use the different parts of a workbook, you need to be able to move to them. You can move around a workbook using the mouse or keyboard, or by changing the viewing scale.

Using the Mouse to Move Around

You can move to any cell on the worksheet, simply by clicking the 🗘 shaped mouse on the required cell.



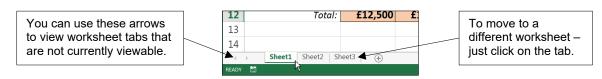
If you can't see the cell you want to move to on the screen then you can use the *scroll bars* to move further down and/or further across the worksheet:





If you have a mouse with a "scroll wheel", you can use it to scroll up and down on a worksheet.

You can also use the mouse to move to different worksheets:



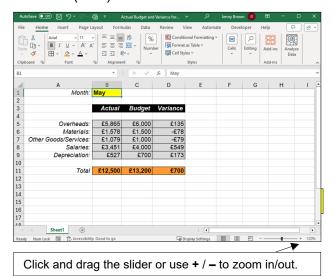
Keyboard Shortcuts for Moving Around

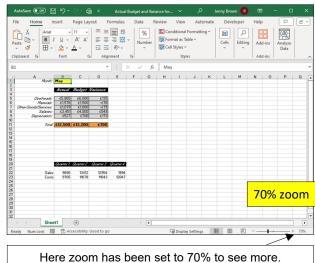
There are many keyboard shortcuts that you can use to quickly move around a workbook. The table below summarises the main ones:

Key(s)	What they do
→ , ← , ↓ , ↑	Moves the cursor one cell in the appropriate direction
Ctrl + ↑ Ctrl + ↓ Ctrl + ← , Ctrl + ←	Moves the cursor to the appropriate end of the currently selected block of cells
Home	Moves the cursor to the first column of the current row
Ctrl + Home	Moves the cursor to the first cell of the sheet (A1)
Ctrl + End	Moves the cursor to the bottom right corner of your sheet
Page Down , Page Up	Goes one "screen" down or up
Alt + Page Down	Goes one "screen" right
Alt + Page Up	Goes one "screen" left
F5	Lets you choose a cell reference to go to, then type
Ctrl + Page Down	Go to the next worksheet in the workbook
Ctrl + Page Up	Go to the previous worksheet in the workbook

Zooming the View

You can see more of your worksheet in the same screen area by using the zoom control tool to zoom out (or in):



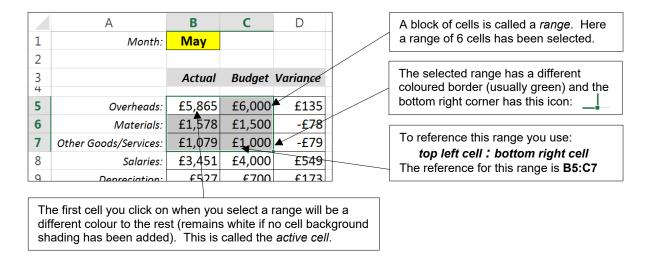




If you have a mouse with a "scroll wheel", you can hold Ctrl and scroll the wheel to zoom in and out.

2.2 Selecting Cells

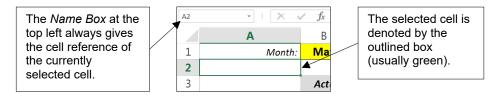
Just about everything you do in Excel requires you to first select the cell or cells that you want to make the changes to.



Selecting Single Cells

To select a single cell:

- Simply click the mouse shape on the required cell; or
- Press any cursor movement key like →, ←, or ↑ until you reach the desired cell.

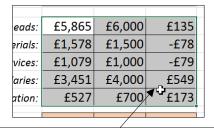


Selecting a Range of Cells

The easiest way to select a range is by simply clicking and dragging with the mouse:

	Actual	виадец	variance
eads:	€ £5,865	£6,000	£135
erials:	£1,578	£1,500	-£78
vices:	£1,079	£1,000	-£79
aries:	£3,451	£4,000	£549
ation:	£527	£700	£173
		\	

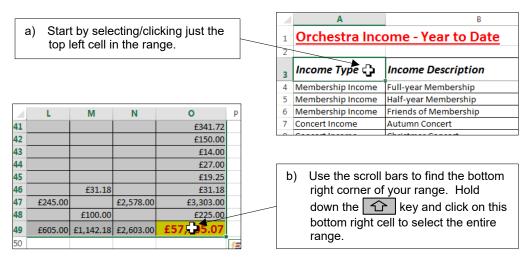
a) Move the cursor over a corner of the range you want to select (usually top left corner). Make sure the mouse changes to this shape:



b) With the mouse shape, click and hold the left mouse button down and drag the mouse to the opposite corner of the range (usually bottom right). Release the mouse button to select the range.

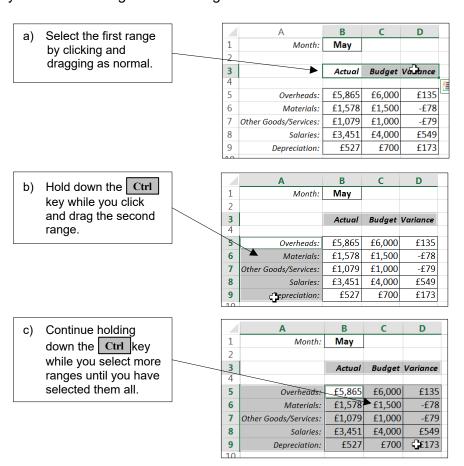
Selecting a Large Range of Cells

It is often tricky to select a large range by dragging the mouse, so instead you can use the key as shown below:



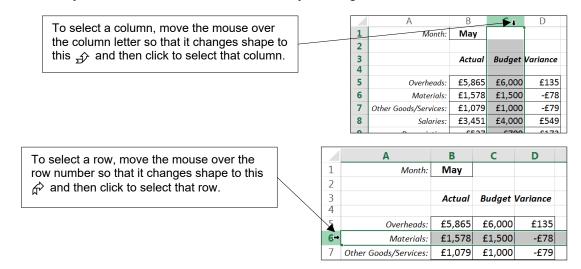
Selecting Multiple Ranges

You can select several separate ranges by holding down the Ctrl key for each range you want to add whilst you click and drag the extra ranges.



Selecting Entire Rows and Columns

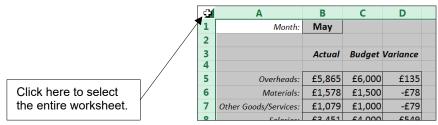
You can easily select entire rows and columns by clicking the row numbers or column letters.

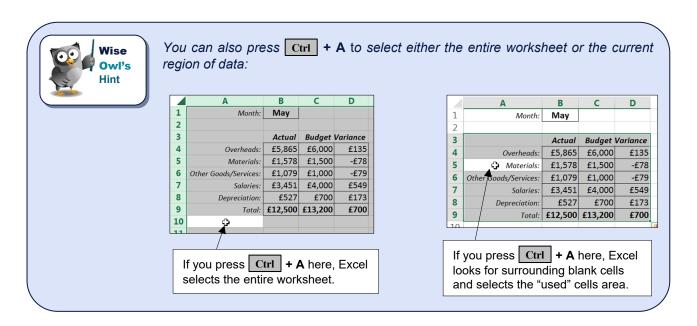


To select multiple adjacent rows/columns, click and drag across the column letters/row numbers. To select multiple non-adjacent rows/columns, hold down while you click on the column letter/row number.

Selecting an Entire Worksheet

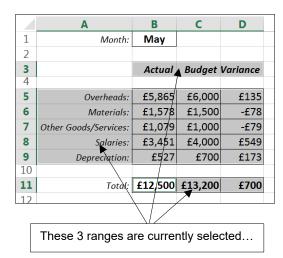
You can select every cell on a worksheet (including all the blank cells) by clicking at the top left corner:

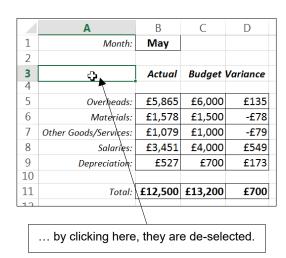




De-Selecting Cells

To de-select, all you have to do is click the mouse on a different worksheet cell or press one of the cursor movement keys like , , , , to move to a different cell.

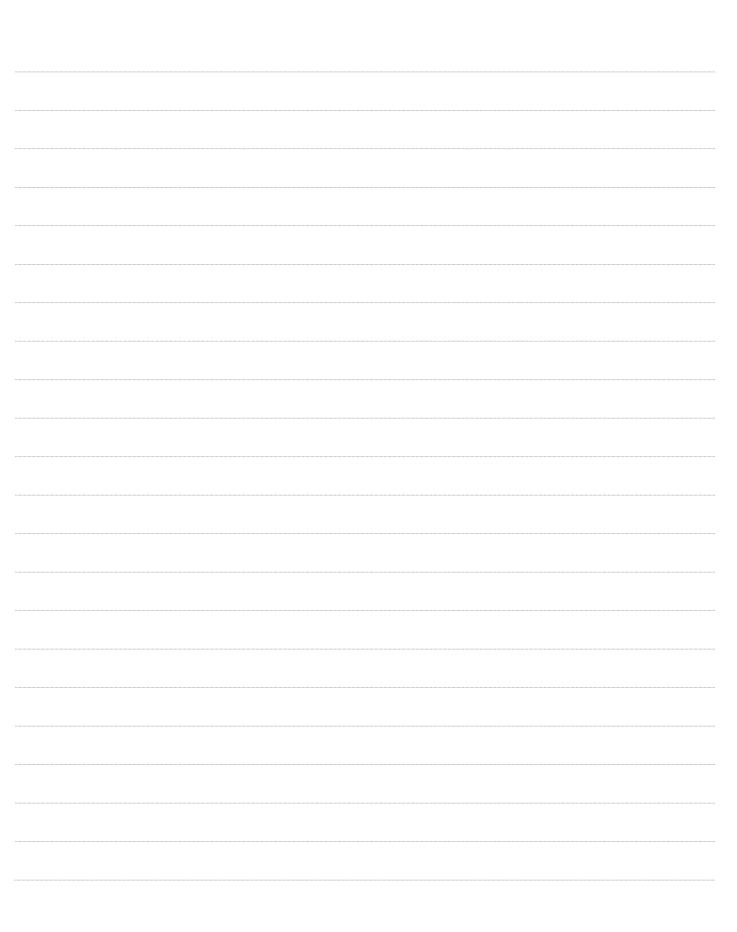




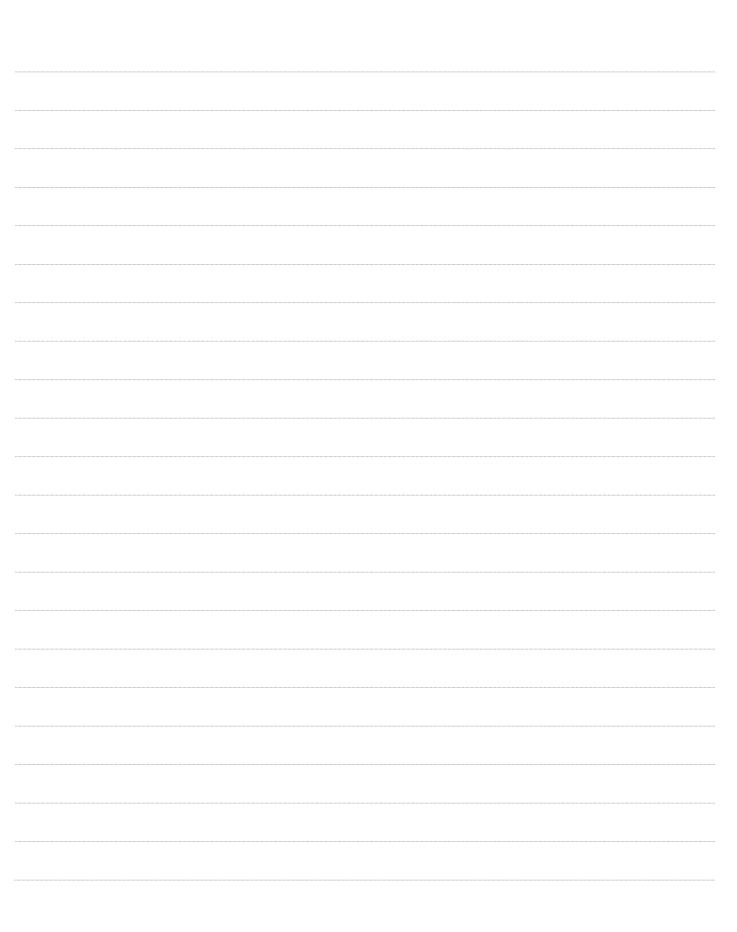
Using the Keyboard to Select Cells

There are many keyboard shortcuts for selecting cells. The table below summarises the main ones:

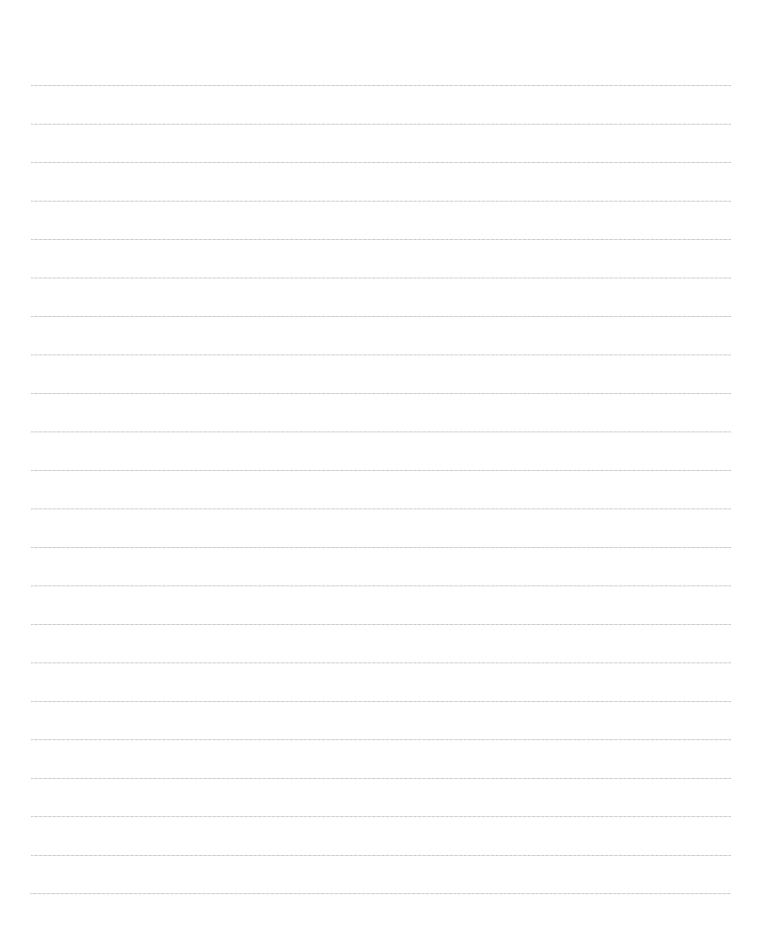
Key(s)	What they do
+ any of the arrow keys	Extends the current selection one row or column in the appropriate direction.
Ctrl + 1 + any of the arrow keys	Selects from the active cell to the end of the current region of cells in the appropriate direction.
Ctrl + Space Bar	Selects an entire column.
+ Space Bar	Selects an entire row.
Ctrl + A	Selects all the cells in the current region – if you have a cell selected within a block of data this will select the whole block of data, otherwise it will select all the cells on the worksheet.



























What we do!

		Basic training	Advanced training	Systems / consultancy
	Microsoft Excel			
e	VBA macros	2	2	
Office	Office Scripts			
	Microsoft Access			
etc	Power BI and DAX			
Power BI, etc	Power Apps			
Pow	Power Automate (both)			
	SQL			
ver	Reporting Services			
SQL Server	Report Builder			
SQL	Integration Services			
	Analysis Services			
	Visual C#	2	2	
ing	VB programming			
Coding	MySQL	2		
	Python	2	2	



