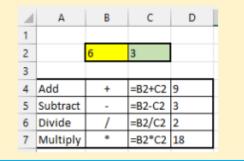


## 7.4 Spreadsheets

**Spreadsheets** are used to store **information** and **data**. Once we have our information in a spreadsheet we can run powerful calculations, make graphs and charts and analyse patterns.

## CALCULATIONS USING BASIC FORMULAE

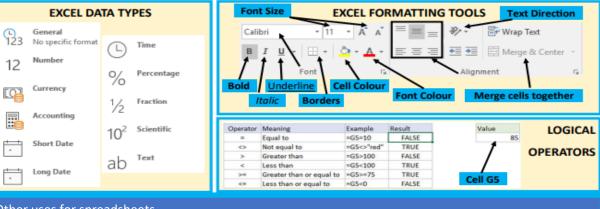


A	bsolute refe	erence	Relative reference		
<b>B</b> 3	• ;	=\$A\$1+5	B3	· · ·	=A1+5
1	A	в		А	В
1	10	15	1	10	15
2	9	15	2	9	14
3	8	15	3	8	13
4	7	15	4	7	12

**ABSOLUTE & RELATIVE CELL REFERENCING** 

## EXAMPLE FUNCTIONS IN EXCEL

	А	В	с	D	E	F	G
1							
2		10		Function	Description	Example Use	Answer
3		20		SUM()	Adds all the numbers in a range of cells.	=SUM(B2:B9)	210
4		30		AVERAGE()	Works out the average of the numbers in a range of cells.	=AVERAGE(B2:B9)	26.25
5		40		MAX()	Shows the largest number in a range of cells.	=MIN(B2:B9)	10
6		50		MIN()	Shows the smallest number in a range of cells.	=MAX(B2:B9)	50
7		10		COUNT()	Counts the number of cells in a range that contain numbers.	=COUNT(B2:B9)	8
8		20		COUNTIF()	Counts the number of cells in a range that meet a given condition.	=COUNTIF(B2:B9,10)	2
9		30		IF()	Checks if a condition is met and returns one value if TRUE and another value if FALSE.	=IF(B9>50,"Yes","No")	No



## Other uses for spreadsheets –

- Modelling and Planning
- Wages/Invoices
- Creating charts and graph

- Home/Business Finance and Budgeting
- Predictions / Simulations / Calculations

Key Vocabulary						
Active Cell	The <b>cell</b> you have selected and are currently on.					
Cell	A rectangular box in a <b>worksheet</b> that can contain data.					
Cell Range	A collection of selected <b>cells</b> . For example (B2:D2).	⊿ A B C D 1 2				
Cell Reference	A name given to each <b>cell</b> made up of the <b>column</b> letter and <b>row</b> number of that cell.	B3 ~				
Chart	A graph - used to show data in a visual way.	⊡ ~ □ ~ ≪ - ▲ -				
Column	A vertical collection of <b>cells</b> . Each column has a letter to represent it.	A B				
Data Type	The type of value being stored in a <b>cell</b> .	Text 16 Yes/No £34.59				
Formatting Tools	A set of tools that allow the style of a <b>cell</b> to be changed.	⊞ •   <u>^</u> • <u>A</u> •				
Formula	A set of instructions to be carried out.	=B3+D3				
Function	A named formula built into a spreadsheet to perform a task.	<i>fx</i> =SUM(B3:F3)				
Modelling	Using a computer to predict and investigate a real life situation.					
Row	A horizontal collection of <b>cells</b> . Each row has a number to represent it.	A B 1 2				
Spreadsheet	A computer program (software) that shows information in a grid of data where calculations can be performed.	A B 1 4 2 5 =A1+A2				
Workbook	A spreadsheet file made up of worksheets.	Sheet1 Sheet2 Sheet3				
Worksheet	A single page within a <b>workbook</b> .	Sheet1				