

# Excel Functions

The CELL() function returns the filename (including the path) and the current worksheet name. FIND() searches for some characters within a text string and returns the start position.

**=CELL("filename", Cell\_Ref)**

**=FIND(searchItem,withinText, start\_posn)**

<http://www.meadinkent.co.uk/xlvariousone.htm>

	A	B
1	C:\TempExcelData\[Reminders.xlsx]Sheet1	
2		=CELL("filename", A1)
3	Reminders.xlsxm	
4		=MID(A1, FIND("\[", A1, 2)+2, FIND("]", A1, 3)-FIND("\[", A1, 2)-2)
5	C:\TempExcelData\[Reminders.xlsx]	
6		=LEFT(A1, FIND("]", A1, 3))

	G	H	I
14			
15	5	8	
16	8		=OFFSET(G14, 2, 0)
17	2	15	
18	4		=SUM(OFFSET(G14, 1, 0, 3, 1))

The OFFSET() function will return either the value in a single cell or the values in a range of cells.

**=OFFSET(InitialCell, RowsFrom, ColsFrom, Height, Width)**

<http://www.meadinkent.co.uk/xloffsetchoose.htm>

DATE() creates a date from 3 numeric values. TEXT() will convert a number or date value into a text string and DATEVALUE() returns a date value from an appropriate text string.

**=DATE(Year, Month, Day)**

**=TEXT(CellReference, StringFormat)**

**=DATEVALUE(TextStringDate)**

<http://www.meadinkent.co.uk/datesandtimes.htm>

	J	K	L
5	25/12/2011		
6		=DATE(2011, 12, 25)	
7	25 Dec 11		
8		=TEXT(J5, "dd mmm yy")	
9	25/12/2011		
10		=DATEVALUE(J7)	

SUMPRODUCT() has many uses, but is commonly used to sum a range of values which meet various criteria.

**=SUMPRODUCT((criteria or range1)\*(criteria or range2))**

<http://www.meadinkent.co.uk/xlsumproduct.htm>

	F	G	H
6	Month	Qty	Paid
7	Apr	10	Yes
8	Apr	42	No
9	Jun	20	Yes
10	Oct	5	Yes
11	Dec	19	Yes
12	Value of confirmed sales		
13	excluding December		35
15	[H13]=SUMPRODUCT((F7:F11<>"		
16	Dec")*(H7:H11="Yes")*(G7:G11))		

	A	B	C	D
1	Selection			North
2	Region	North		South
3	Sales	102		East
4				
5	[B3]=SUM(INDIRECT(B2 & "_Data!B3:B6"))			

INDIRECT() returns a cell reference created from a text string. In the example values will be summed from a worksheet ('North\_Data') whose name is derived from the value selected (in B2).

**=INDIRECT(textString)**

<http://www.meadinkent.co.uk/xl-indirect.htm>