

AGGREGATION FUNCTION-COUNT/COUNTA/COUNTBLANK/COUNTIF/SUMIF/SUMPRODUCT

COUNT

WHAT DOES IT DO?

- This function counts the number of numeric entries in a list
- It will ignore blanks, text and errors

SYNTAX

• =COUNT(Range1,Range2,Range3... through to Range30)

EXAMPLE

	С	D	Е	F	G	Н
3	Entries To Be Counted			Count		
4	10	150	30	3	=COUNT(C4	l:E4)
5	10	0	30	3	=COUNT(C5	5:E5)
6	10	-150	30	3	=COUNT(C6:E6)	
7	10	1-Jan-08	30	3	=COUNT(C7:E7)	
8	10	21:30	30	3	=COUNT(C8:E8)	
9	10	0.8840387	30	3	=COUNT(C9:E9)	
10	10		30	2	=COUNT(C10:E10)	
11	10	Hi	30	2	=COUNT(C11:E11)	
12	10	#DIV/0!	30	2	=COUNT(C12:E12)	

COUNTA

WHAT DOES IT DO?

- This function counts the number of numeric or text entries in a list
- It will ignore blanks

SYNTAX

• =COUNT(Range1,Range2,Range3... through to Range30)

EXAMPLE

	С	D	E	F	G	Н
3	Entr	ies To Be Cou	nted	Count		
4	10	150	30	3	=COUNTA(C	C4:E4)
5	10	0	30	3	=COUNTA(C	C5:E5)
6	10	-150	30	3	=COUNTA(C	C6:E6)
7	10	1-Jan-08	30	3	=COUNTA(C	C7:E7)
8	10	21:30	30	3	=COUNTA(C	(83:83
9	10	0.3863932	30	3	=COUNTA(C	:9:E9)
10	10		30	2	=COUNTA(C	C10:E10)
11	10	Hi	30	3	=COUNTA(C	C11:E11)
12	10	#DIV/0!	30	3	=COUNTA(C	C12:E12)

COUNTBLANK

WHAT DOES IT DO?



• This function counts the number of blank cells in a range

SYNTAX

=COUNTBLANK(RangeToTest)

EXAMPLE

	С	D	E	F
3	Range To Test		Blanks	
4	1		2	
5	Hello		=COUNTBLANK	((C4:C11)
6	3			
7	0			
8				
9	1-Jan-98			
10				
11	5			

COUNTIF

WHAT DOES IT DO?

• This function counts the number of items which match criteria set by the user.

SYNTAX

- =COUNTIF(RangeOfThingsToBeCounted,CriteriaToBeMatched)
- The criteria can be typed in any of the following ways
 - o To match a specific number type the number, such as =COUNTIF(A1:A5,100)
 - To match a piece of text type the text in quotes, such as =COUNTIF(A1:A5,"Hello")
 - o To match using operators surround the expression with quotes, such as =COUNTIF(A1:A5,">100")

EXAMPLE

	В	С	D	E	F	G
3		Item	Date	Cost		
4		Brakes	1-Jan-98	80		
5		Tyres	10-May-98	25		
6		Brakes	1-Feb-98	80		
7		Service 1-M		150		
8		Service 5-Jan-98		300		
9		Window 1-Jun-98		50		
10		Tyres 1-Apr-98		200		
11		Tyres 1-Mar-98				
12		Clutch 1-May-98				
13						
14	How many E	Brake Shoes Have	2	=COUNTIF(C4:C12,"Brakes")		
15	How many T	yres have been b	oought.	3	=COUNTIF(C4:C12,"Tyres")	
16	How many i	tems cost \$100 o	r above.	5	=COUNTIF(E4:E12,">=100")	

SUMIF FUNCTION

WHAT DOES IT DO?

• This function adds the value of items which match criteria set by the user



SYNTAX

- =SUMIF(RangeOfThingsToBeExamined,CriteriaToBeMatched,RangeOfValuesToTotal)
- =SUMIF(C4:C12,"Brakes",E4:E12)
 - o This examines the names of products in C4:C12
 - o It then identifies the entries for Brakes
 - o It then totals the respective figures in E4:E12
- =SUMIF(E4:E12,">=100")
 - O This examines the values in E4:E12
 - o If the value is >=100 the value is added to the total

EXAMPLE

	В	С	D	Е	F	G	Н		
3		Item	Date	Cost					
4		Brakes	1-Jan-98	80					
5		Tyres	10-May-98	25					
6		Brakes	1-Feb-98	80					
7		Service	1-Mar-98	150					
8		Service	5-Jan-98	300					
9		Window	1-Jun-98	50					
10		Tyres	1-Apr-98	200					
11		Tyres	1-Mar-98	100					
12		Clutch	1-May-98	250					
13									
14	14 Total cost of all Brakes bought. 160						=SUMIF(C4:C12,"Brakes",E4:E12)		
15	Total cost of all Tyres bought. 325 =SUMIF(C4:C12, "Tyres", E4:E12)							,E4:E12)	
16	Total of items costing \$100 or above. 1000 =SUMIF(E4:E12,">=100")								

SUMPRODUCT FUNCTION

WHAT DOES IT DO?

- This function uses at least two columns of values
- The values in the first column are multiplied with the corresponding value in the second column
- The total of all the values is the result of the calculation

SYNTAX

• =SUMPRODUCT(Range1, Range, Range3 through to Range30)

FXAMPLE

	С	D	Е	F	G	Н	
3	Item	Sold	price				
4	Tyres	15	100				
5	Filters	10	10				
6	Bulbs	15	2				
7							
8	Total Sales Value :		1630	=SUMPRODUCT(D4:D6,E4:E6)			