Computing

Lesson 5: Level up your Data Skills

Spreadsheets

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Example of AVERAGE

AVERAGE formula can work out the average of a set of data.

=AVERAGE(D4:D9)

 Notice at the top the formula bar shows your formula.

fx	=AVERAGE(D4:D9)						
	А	В	С	D			
1							
2			Exam Marks				
3							
4			A	2			
5			В	2			
6			С	2			
7			D	2			
8			E	3			
9			U	3			
10			AVERAGE 2 =A	VERAGE (D4:D9)			
11			COUNTIF				
12			IF				
13							



Example of COUNTIF

 COUNTIF can help you to find out how many of the same data there is by counting it for you.

=COUNTIF(D4:D9)

fx	=countif(D4:D9,2)						
	A	В	С	D			
1							
2			Exam Marks				
3							
4			A	2			
5			В	2			
6			C	2			
7			D	2			
8			E	3			
9			U	3			
10			AVERAGE	2.333333333			
11			COUNTIF 2	countif(D4:D9,2)=			
12			IC				



Example of IF

An IF formula provides and analyses two outcomes. A true and a false outcome.

=IF(D4=3, "Well Done", "Try again")

IF the value in D4 is equal to 3 then say well done else say try again.

Why not use a autofill

$f_X \mid =$	=IF(D4=3, "Well done", "Try again")								
	A	В	С	D	E	F			
1									
2			Exam Marks						
3									
4			A	?	=IF(D4=3,"Well	done","Try agai	n"		
5			В	2					
6			C	2					
7			D	2					
8			E	3					
9			U	3					
10			AVERAGE	2.333333333					
11			COUNTIF	4					
12									



Task 1 - Practise AVERAGE, COUNTIF and IF formula

Jan		1.5	- V		
	A	В	С	D	E
1					
2			Exam Marks		
3					
4			Α	2	IF formula will go here, use autofill for the rest of the cells
5			В	2	
6			С	2	
7			D	2	
8			E	3	
9			U	3	
10			AVERAGE		
11			COUNTIF		
12					



Practise AVERAGE, COUNTIF and IF formulas

- Create the spreadsheet shown and add the AVERAGE, COUNTIF and IF formula in.
- Try autofill once you have typed the first IF formula.
- Add colour to make your spreadsheet look more interesting.
- Why not add a border around your table.

JX					
	A	В	С	D	E
1					
2			Exam Marks		
3					
4			Α	2	IF forumla will go here, Use autofill for the rest of the cells
5			В	2	
6			C	2	
7			D	2	
8			E	3	
9			U	3	
10			AVERAGE		
11			COUNTIF		
12					



Task 2 - Sorting and filtering

Exam Marks			
Α =	2 =	Try again	
В	2	Try again	
С	2	Try again	
D	2	Try again	
E	3	Well done	
U	3	Well done	
AVERAGE	2.333333333		
COUNTIF	4		



Sorting and Filtering

Sort: Highlight D4:D9 numbers and sort these A-Z.

Filter: Use the filter tool to look for all pupils who did well in there exam.

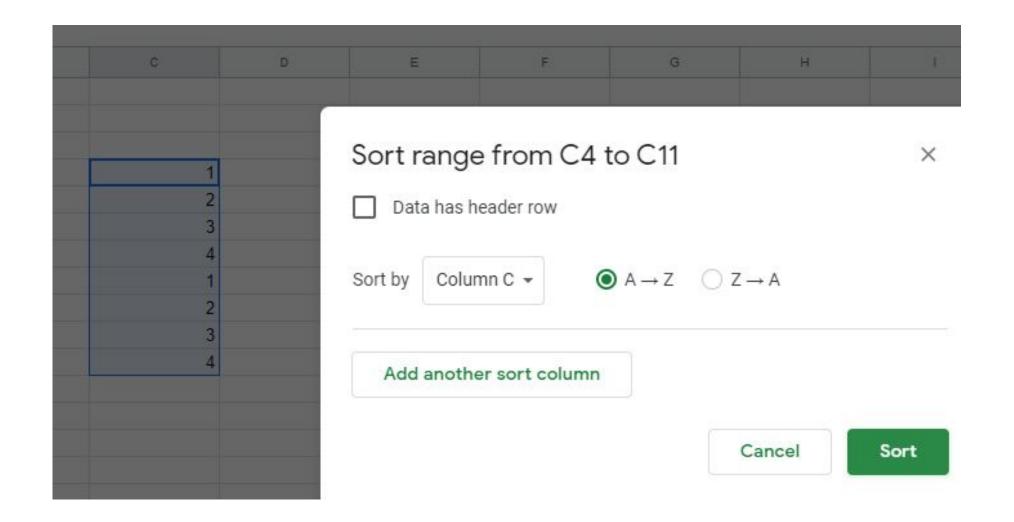
Exam Marks			
A =	2 =	Try again	
В	2	Try again	
С	2	Try again	
D	2	Try again	
E	3	Well done	
U	3	Well done	
AVERAGE	2.333333333		
COUNTIF	4		



Sorting Data

- Data can be sorted into a particular order.
 - Ascending A to Z
 - Descending Z to A

Highlight and right click to sort. Then select your range as seen.





Filtering Data

- A filter helps you find information that you want to see and hide the rest.
- Highlight information to filter and click to turn on the filter tool.
- Select from the column what you would like to see by ensuring there is a tick next to the item as shown in the image.

