

Spreadsheets

If Statements

<http://www.yahmad.co.uk/>

Task Overview

Objectives

Understand the use of absolute cell referencing.

Understand the use of simple functions (sum,max,min and average in a spreadsheet.

Understand the use of If statements including the logical, true and false statements.

Understand the need the need to present data in a graph format.

Outcomes

Complete the If Statement worksheets.

Time

If Statements

If the **units sold** is **more than or equal** to the **targets sales** than the **target has been met**.

	Tv Shows	Season	Units Sold	Target Sales	Price	VAT	Final Price	Total Sum	on target	
4										1) Apply fo
5	Once Upon A Time	2	23	15	£12.50	£ 2.19	£ 14.69	£ 337.81	=IF(C5>=D5,"on target","off target")	2) Work ou
6	The Walking Dead	3	45	20	£13.50	£ 2.36	£ 15.86	£ 713.81		4) Work ou

1. Logical Test

Is units sold more than or equal to the target sales.

2. If the statement is **true** then the "**true statement**" will be printed in the cell.

3. If the statement is **false** then the "**false statement**" will be printed in the cell.

=IF(C5>=D5,"on target","off target")

1. Logical Test

2. True

3. False

If Statements

If the Online Discount is Yes then 10% needs to be subtracted from the price.

	A	B	C	D
1	T			
2				
3			10%	
4	Books	Price	Online Discount	Final Price
5	Diary of a Wimpy Kid:	£ 5.50	Yes	£ 4.95

$$100 * 1 = 100$$
$$100 * 1.1 = 110$$
$$100 * 0.1 = 10$$
$$100 * 0.9 = 90$$

1. Logical Test $C5="Yes"$
2. True $B5*0.9$
(Take away 10% of the Price)
3. False $B5$
(Return the original price)

=IF(C5="Yes", B5*0.9, B5)

1. Logical Test

2. True

3. False

Absolute Cell Referencing

	A	B	C	D	E	F
1	Ta					
2						
3						17.5%
4	TV Shows	Season	Units Sold	Target Sales	Price	VAT
5	Once Upon A Time	2	23	15	£12.50	=E5*\$F\$3
6	The Walking Dead	3	45	20	£13.50	

Price	VAT
£12.50	=E5*\$F\$3

This cell has absolute cell referencing.

When you use **AutoFill** to **duplicate a formula** into the cells **below** then you must use **absolute cell referencing** if you want the cells to be **referencing to one particular cell**.

Absolute cell referencing will **lock** in a particular cell. To absolute cell reference you must insert a **dollar sign before Letter and number of the cell**.

	A	B	C	D	E	F
1	T					
2						
3						17.5%
4	TV Shows	Season	Units Sold	Target Sales	Price	VAT
5	Once Upon A Time	2	23	15	£12.50	£ 2.19
6	The Walking Dead	3	45	20	£13.50	£ 2.36
7	Lost	4	24	20	£10.50	£ 1.84
8	Heroes	2	24	25	£12.50	£ 2.19
9	The 100	1	22	25	£11.50	£ 2.01
10	Under the Dome	1	12	20	£10.50	£ 1.84
11	Lost	5	23	20	£ 9.55	£ 1.67

All the **price cells** have been **multiplied** by the **percentage** to work out the tax.

Functions

	A	B	C	D	E	F	G	H
1	Task 2 - 1							
2								
3						17.5%		
4	Tv Shows	Season	Units Sold	Target Sales	Price	VAT	Final Price	Total Sum
5	Once Upon A Time	2	23	15	£12.50	£ 2.19	£ 14.69	£ 337.81
6	The Walking Dead	3	45	20	£13.50	£ 2.36	£ 15.86	£ 713.81
7	Lost	4	24	20	£10.50	£ 1.84	£ 12.34	£ 296.10
8	Heroes	2	24	25	£12.50	£ 2.19	£ 14.69	£ 352.50
9	The 100	1	22	25	£11.50	£ 2.01	£ 13.51	£ 297.28
10	Under the Dome	1	12	20	£10.50	£ 1.84	£ 12.34	£ 148.05
11	Lost	5	23	20	£ 9.55	£ 1.67	£ 11.22	£ 258.09
12							Total	£ 2,403.64
13							Highest	£ 713.81
14							Lowest	£ 148.05
15							Average	£ 343.38

Range

`=SUM(H5:H11)`

=Sum(Range) will add up all the numbers in the range

`=MAX(H5:H11)`

=Max(Range) will find the highest number in the range.

`=MIN(H5:H11)`

=Min(Range) will find the lowest number in the range.

`=AVERAGE(H5:H11)`

=average(Range) will find the average number in the range.

Plenary – Refer to the Lesson Objectives

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Plenary Task (Q&A)

Discuss the advantages of using absolute cell referencing and If Statements.
Discuss the levels pupils have achieved for this task.