# Spreadsheets

Skills Lesson Part 2

100

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## Skills Lesson Part 2 Overview

#### **Objectives**

To understand the use of the different count functions:

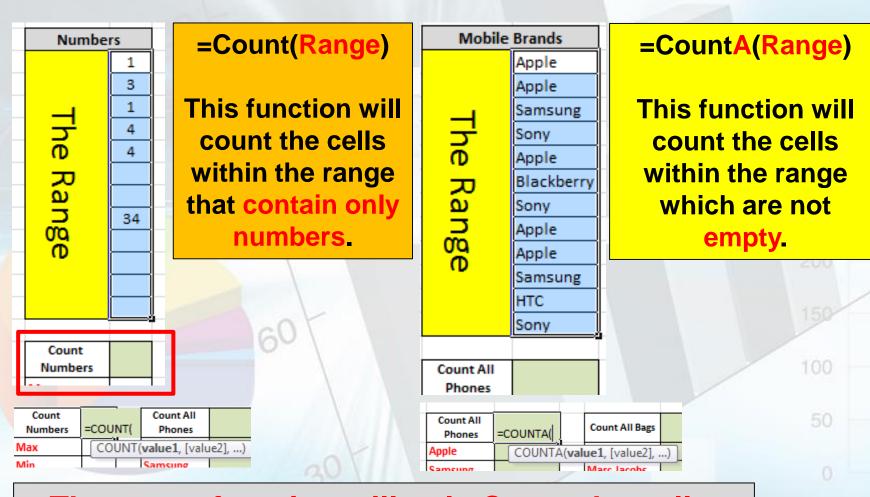
- =Count
- =CountA
- =CountIF

To understand the need to use absolute cell referencing in some calculations.

**Outcomes** Time

Pupils will complete the skills lesson Part 2 Excel sheet.

### **Overview – Count Function**



The count function will only Count the cells.

Do not get confused with Sum.

## Overview - Countif Function

#### =Countif(Range,Criteria)

This function will count the cells which contains a specific criteria from the range

Example: We need to count the Prada bags from the range.

Prada	=COUNTIF(	TopShor
Marc Jacobs	COUNTIF( <u>rar</u>	ige, criteria)



Some times you may have to count all cells apart from a certain criteria.

In this example you we want to count all the brands apart from Marc Jacobs

=countif(Range,
"<>Marc Jacobs")

=Countif(Range,"Prada") or =Countif(Range,"I19")

Not: =Countif(Range, "<>criteria")

## Overview - Countif Function

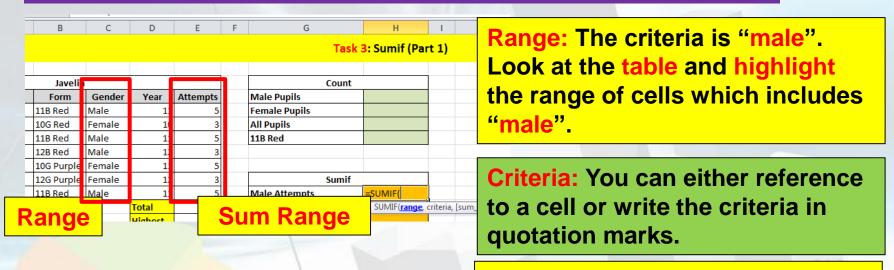
Cars Brands							
The Range	Nissan	PathFinder	2014		=Count		
	Toyota	land cruiser	2008		=CountA =Countif		
	GMC	Yukon	2007	=(			
	Mercedes	clclass	2014	In	Instructions:		
	Nissan	PathFinder	2009		In the cells shaded		
	Toyota	land cruiser	2008	In			
	GMC	Yukon	2013	th	the correct Count		
	Mercedes	clclass	2007				
	Toyota	land cruiser	2014				
	chevrolet	Captiva	2009				
	Nissan	PathFinder	2012				
	chevrolet	trailblazer	2013				
Count All Cars		PathFinder		Year >=2012			
Toyota		Yukon		2014			
Nissan		land cruiser		<=2011			
All car Brands		All car models		All car models			
apart from Toyota		apart from land cruiser		apart from 2013			

Some times you may have to use the following to find a specific criteria:

- < less than
- > more than
- = equal to

=countif(range,">=2012")

#### Overview - Sumif Function

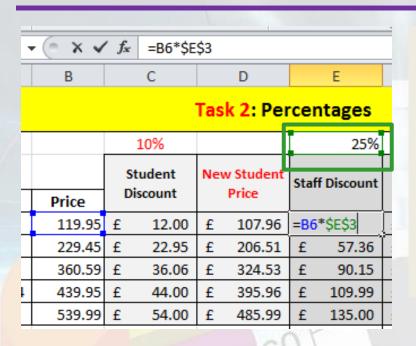


**SumRange: This will basically** 

A sumif will only sum (add) up a specific criteria (condition) from the sum\_range.

Example: The sumif will only add up the male attempts from the sum\_range.

## **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**.

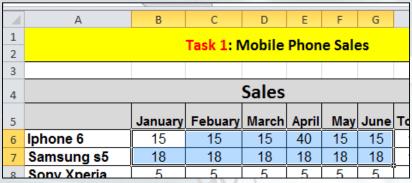
Absolute cell referencing will lock in a particular cell. To absolute cell reference you must insert a dollar sign before Letter and number of the cell.

Ε 1 Task 2: Percentages 3 10% Student New Stude New 4 Staff Discount Discount Mobile Phone Price Sony Xperia M 119.95 £ 12.00 £ 107.96 £ 29.99 89.96 229.45 £ 22.95 £ 206.51 =B7\*E4 #VALUF! Nokia Lumia 1320 360.59 £ 36.06 £ 8 HTC One 324.53 £ 360.59

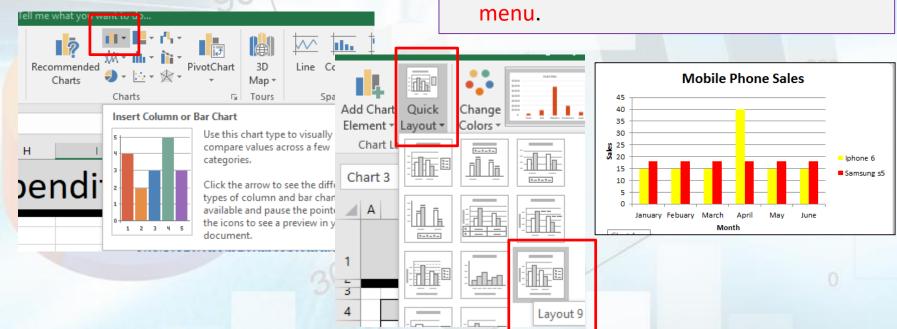
In the example to the left if you do not use absolute cell referencing on the 25% then the Price will be multiplied against the content in E4.

=B6\*\$E\$3

## Graphs



- Highlight the cells that will be required to create the chart.
- Select the a chart option (Bar, Pie, line etc.)
- You can add labels to your graph by selecting Layout 9 from the Quick Layout menu.



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#### Plenary – Refer to the Lesson Objectives

#### **Objectives**

To understand the use of the different count functions:

- =Count
- =CountA
- =CountIF

To understand the need to use absolute cell referencing in some calculations.

#### Plenary Task (Q&A)

1. What is the main advantage of using the Count function in completing this task on a spreadsheet.