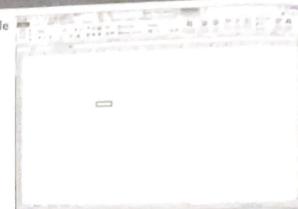
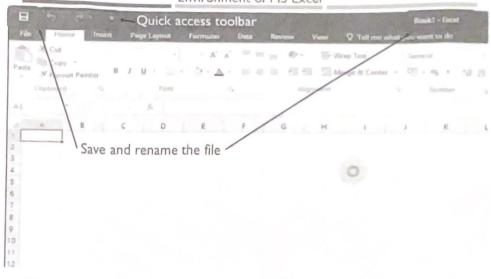
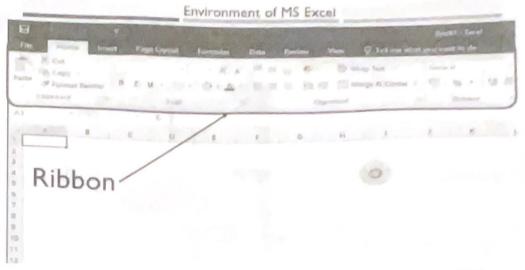
GETTING STARTED...

- 2. Quick access toolbar
- 3. Ribbon
- 4. HOME tab
- 5. INSERT tab
- PAGE LAYOUT tab
- 7. FORMULAS tab
- 8. DATA tab
- 9. REVIEW tab
- 10. VIEW tab



Environment of MS Excel

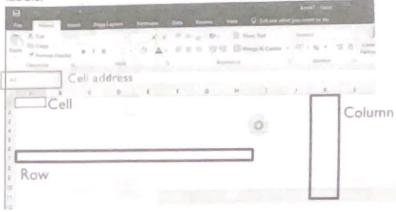




Environment of MS EXCEL

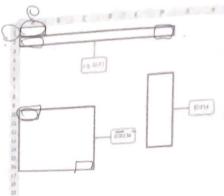
HOME tab

Excel is divided into rows, columns and cells and like a game of Battleship, each cell has a place on the grid that can be referenced using the row and column labels.



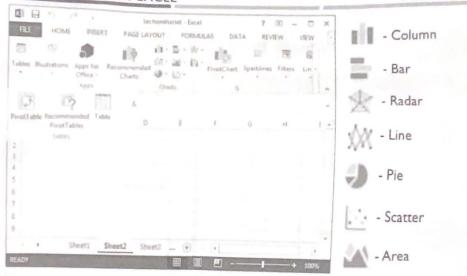
Environment of MS EXCEL

A cell range is used to define the position of a group of cells. It is usually indicated by a colon ":". The representation of a cell range is "top-left cell address:bottom-right cell address".



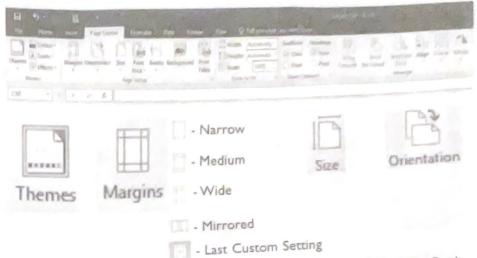
Environment of MS EXCEL

INSERT tab



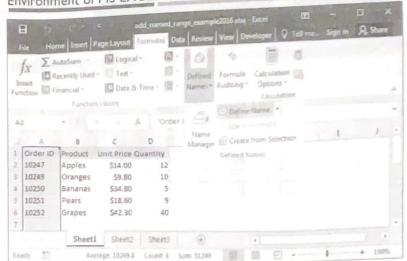
Environment of MS EXCEL

PAGE LAYOUT tab

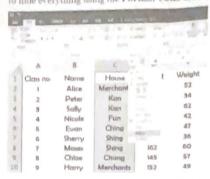


Environment of MS EXCEL

FORMULAS tab



Hiding a single cell is great, but what if you want to hide a full row? You could use the same steps listed above to hide everything using the Format II you want to hide a full row? You could use the same steps listed above to hide everything using the Format Cells menu, but there's a much faster way



Height 162 Alica 185 Peter 104 159 Nicole (34 Evan 179 Sherry 60 Moses 97 145 Chlos 49 157 Harry

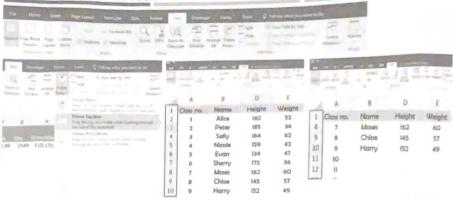
Steps of Hiding columns or rows: 1. Click the Column or Row

- Right Click
 Choose "Hide"

- Steps of Unhide columns or rows: Click the Columns or Rows between hided columns or rows
- Right Click
- Choose "Unhide"

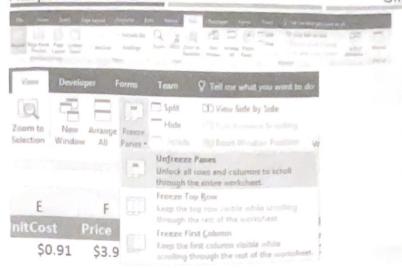
Manipulation of MS EXCEL

Freeze Top Row



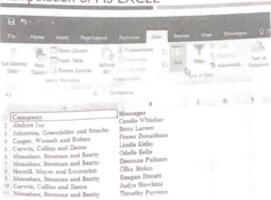
Manipulation of MS EXCEL

Unfreeze Panes



Manipulation of MS EXCEL

Sorting



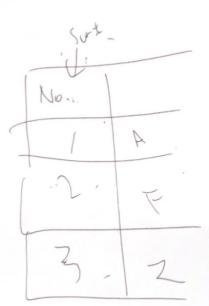
Types of Sorting: 1. Ascending order

e.g. 1, 3, 6, 7, 14, 23 e.g. A, B, Grab, Hat, Yes 1, 11, 2, 45, 478, 50 (text)

Types of Sorting: 2. Descending order

e.g. 90, 74, 56, 34, 22, 1 e.g. Yes, Hat, Grab, B, A 50, 478, 45, 2, 11, 1



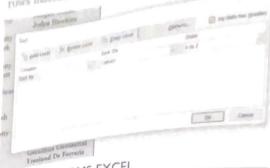


3 7 A

Manipulation of MS EXCEL

At the top, you'll see the Add Level, Delete Level, and Copy Level buttom. The Options button gives you a couple extra features, including the ability to sorr

rows instead of columns.



Value

Filtering

Manipulation of MS EXCEL

D

highlight the cells in the range you'd like to filter, then click the Filter button.

Choose the data you need and click OK.

1 Make

1 1 Make

Year Model \$25,202.25 1992 Fit 1995 \$26,720.95 M5_ 1998 \$33,054.84 F-Series Veracruz 1992 \$38,541.68 1998 Explorer \$22,137.21

Summary

Formatting cells (Bold, underline, alignment) Hide/Unhide columns Freeze column

Auto Fill function Merge & Center function

Find & Replace Using AutoFilter- Sorting Data

Data Restoration

Renaming a Worksheet

Topic 2 Formula Formula

The following four elements may be included in a formula:

- 1. References, e.g. =A1
- 2. Operators, e.g. = A1 + A2, = A1-5
- 3. Constants, e.g. =3
- 4. Functions, e.g. =SUM(A1:A2)

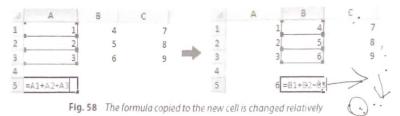
Arithmetic operator

Arithmetic operator	Symbol Used in Spreadsheet	Formula Example
Addition	+	= A1 + A2
Subtraction	-	= A1 - A2
Multiplication	4	= A1 * A2
Division	1	= A1 / A2
Exponentiation	٨	= A1 ^ A2

Relative Reference vs Absolute Reference

Relative Reference

In the last section, when the formula "=A1+A2+A3" in cell A5 is copied to cell B5, it changes to "=B1+B2+B3". The reason is that cell references in Microsoft Excel are relative to the locations of the cells by default. In other words, when we copy a formula with a relative reference to another cell, the reference will change based on the distance between the source and target cells.



This kind of cell reference is called "relative reference". Since it sometimes leads to calculation mistakes, we can use "absolute reference".

Absolute Reference

An absolute reference is a cell reference that is unaffected by the changes in the location of the cells. In other words, when we copy a formula with an absolute reference another cell, the reference in the formula will remain unchanged. We can lock a row are or a column by adding a "4" symbol before the part(s) to be locked. See the followire examples:

Lock a column

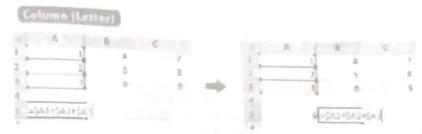


Fig. 59 Locking column A

► Lock a row



Fig. 60 Locking rows 1-3

▶ Lock both a column(s) and a row(s)

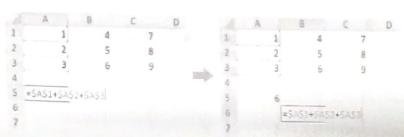


Fig. 61 Locking both column A and rows 1-3

Mathematical Functions		Description -4 colls A1		
Function	Format	Calculate the sum of cells A1,		
SUM	=SUM (A1:A3)	AZ and A3.		

tatistical Functions		Description
Function	Format	Calculate the average of cells
AVERAGE	=AVERAGE (A1:A3)	A1, A2 and A3.
MAX	=MAX (A1:A3)	Output the largest value among cells A1, A2 and A3.
MIN	=MIN (A1:A3)	Output the smallest value among cells A1, A2 and A3.

RANK	=RANK (cell, Range, order)	If order is 0,or did not enter the order, it ranks numbers in descending order. (數值越大, position 越前)	= RANK(A1, A1: A2, 1)
		If order is 1, it ranks numbers in ascending order. (數值越小,position 越前)	

Counting Functions

Function	Format	Description	Example
COUNT	= COUNT(range)	Outputs the number of cells containing numbers within a range. It will not count cells that include text or symbols.	=COUNT (A1:A3)
COUNTIF	=COUNTIF (Range, criteria)	Output the number of cells that matches the criteria within a range.	= COUNTIF(A1:A3, A3) = COUNTIF(A1:A3, "A") = COUNTIF(A1:A3, ">=5") = COUNTIF(A1:A3, ">="&A3)

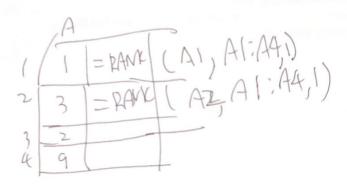
Logical Functions

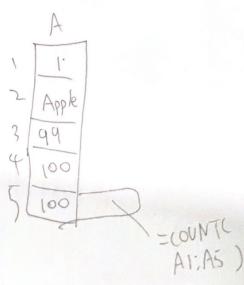
Function	Format	.Description	Example, "A" "B"
IF	= IF (logical test, value if true, value if false)	Outputs the number of cells containing numbers within a range. It will not count cells that include text or symbols.	Example = IF(A1>A3, "A", "B") - IF(A1<5, H5, H6)

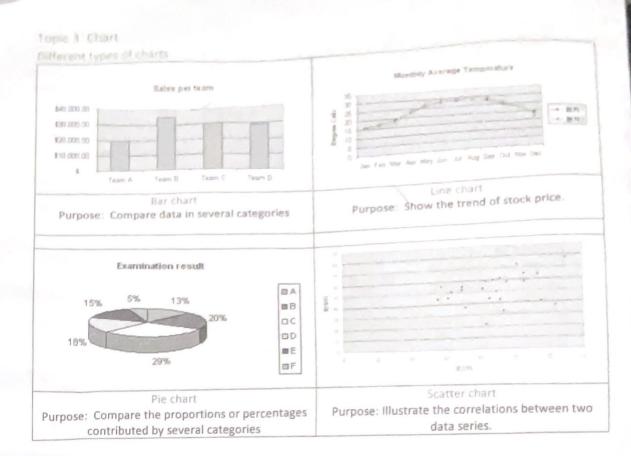
Logical test

Comparison operator	Symbol Used in Spreadsheet	
Larger than	>	
Smaller than	<	
Larger than or equal to	>=	
Smaller than or equal to	<=	
Equal to	=	
Not equal to	<>	

Example: A1>A2, A2=12







Conditional formatting

You can set a formatting logic so that some cells will automatically be shown in specified formats. This conveniently separates the desired cells from others.