Lab 09 More on Spreadsheets MS Excel

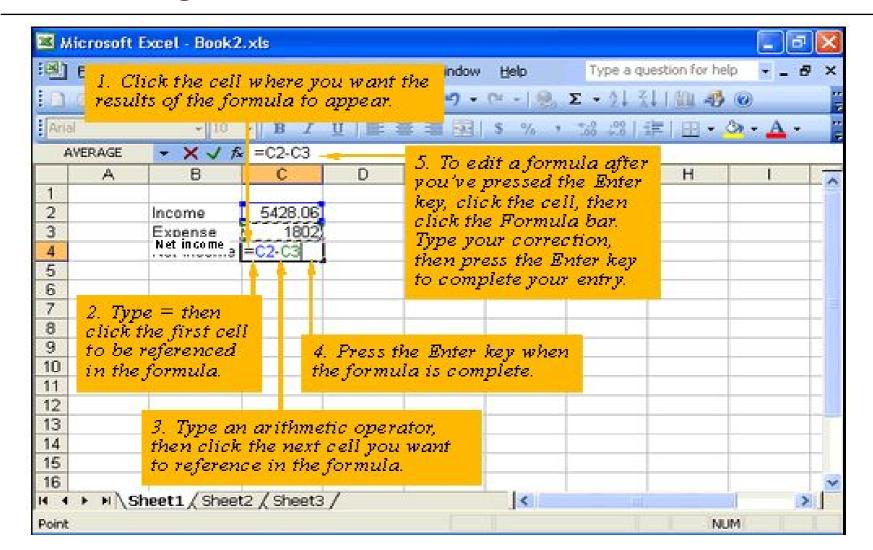
Objectives

- □ The students should understand and have hands on experience in
 - Working with formulas and functions
 - Charting excel data
 - Printing excel worksheet

Working with Formulas and Functions

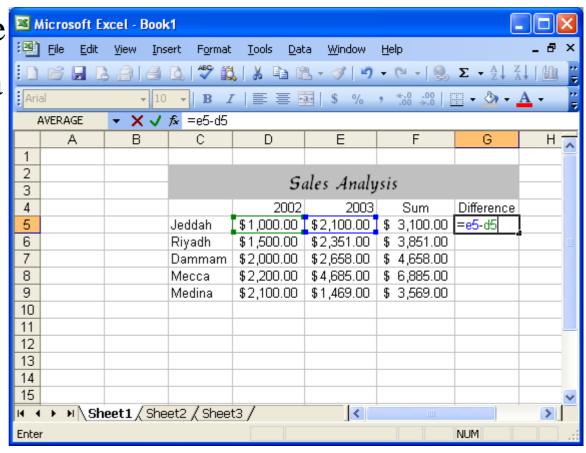
Working with Formulas and Functions

- □ In this section, we will learn how to
 - Build any formula from scratch
 - Quickly sum a series of cells with a single toolbar command
 - Control the order of the formula operations
 - Copy a formula to multiple locations
 - Use Excel's built in functions to perform a variety of calculations

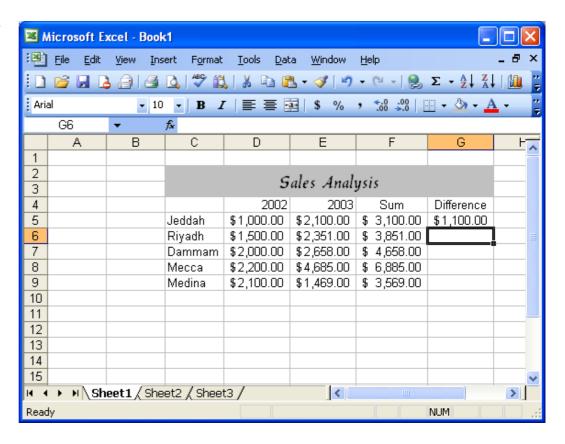


- □ Another example
- □ Here the formula '=E5 - D5'

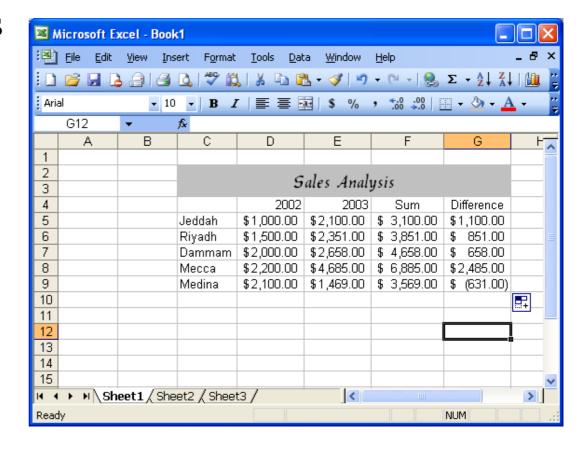
 is written in the cell G5



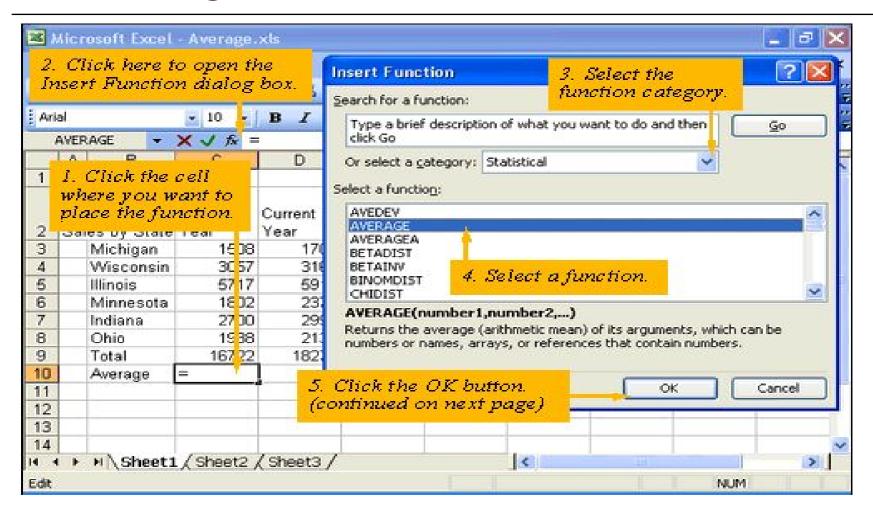
□ This figure shows result of the formula.



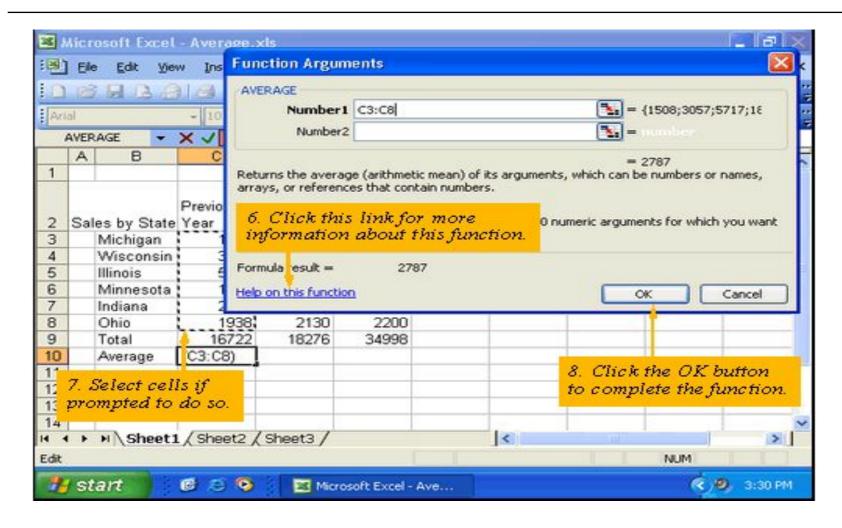
This figure shows the "Difference" column in which the formula has been copied to all the cells in the column.



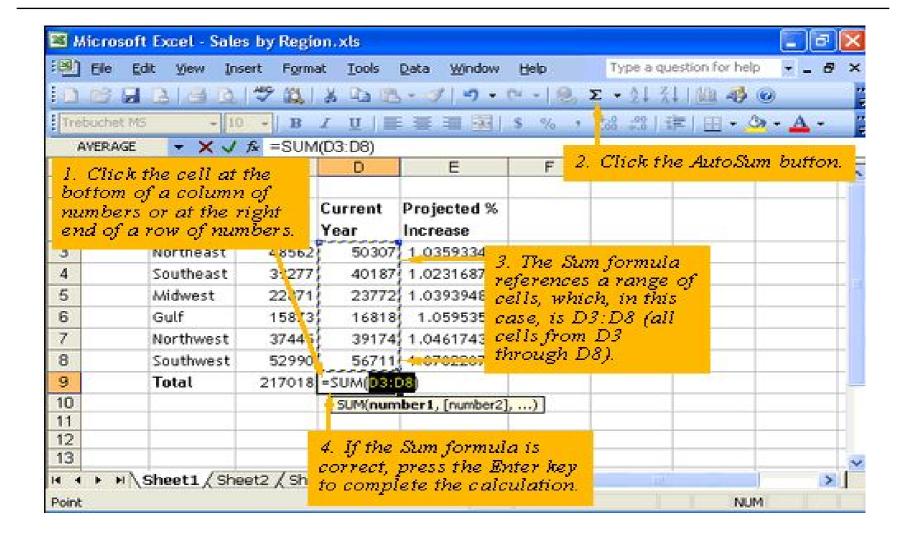
Working with Functions



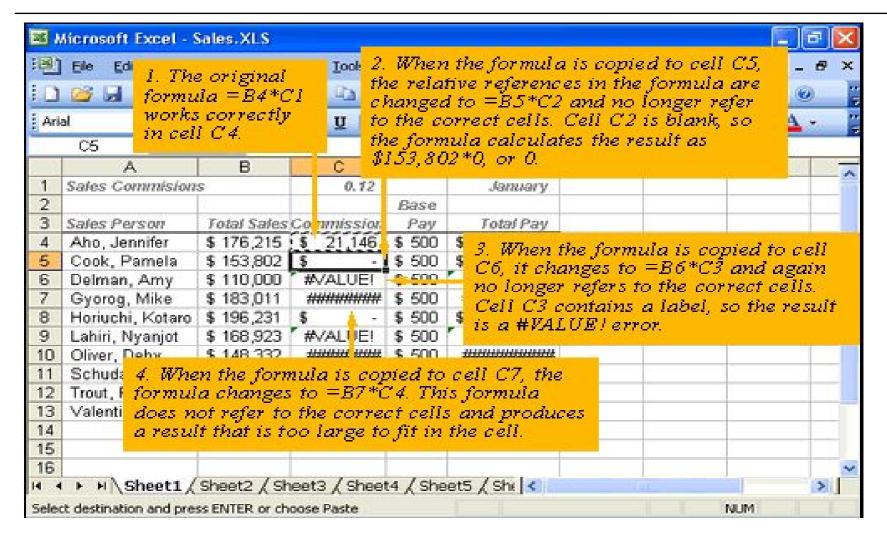
Working with Functions (continued)



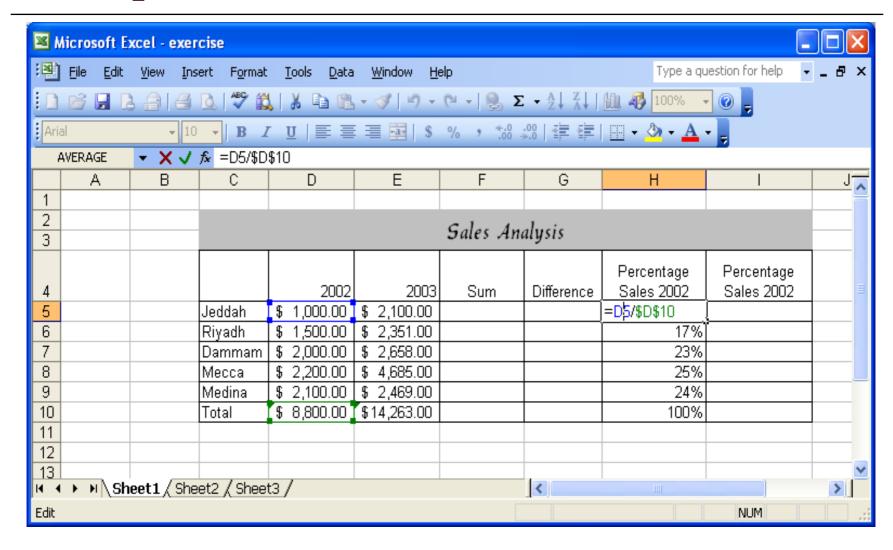
How to use the AutoSum button?



Relative vs. Absolute Addressing

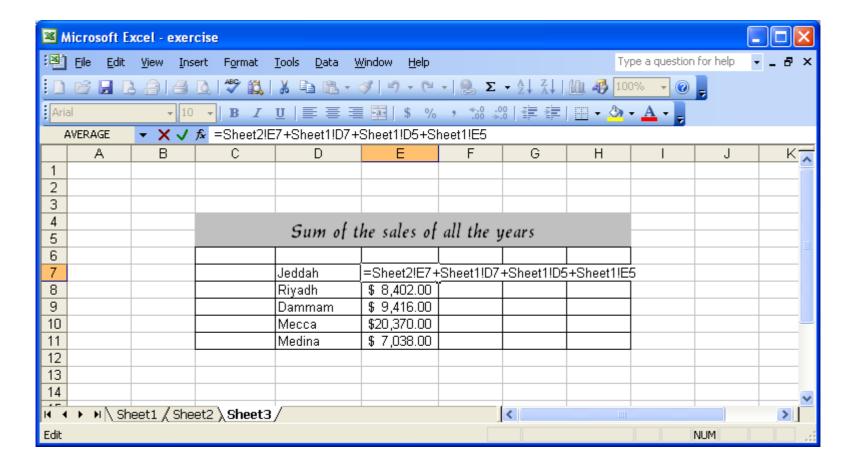


Relative vs. Absolute Addressing - Example



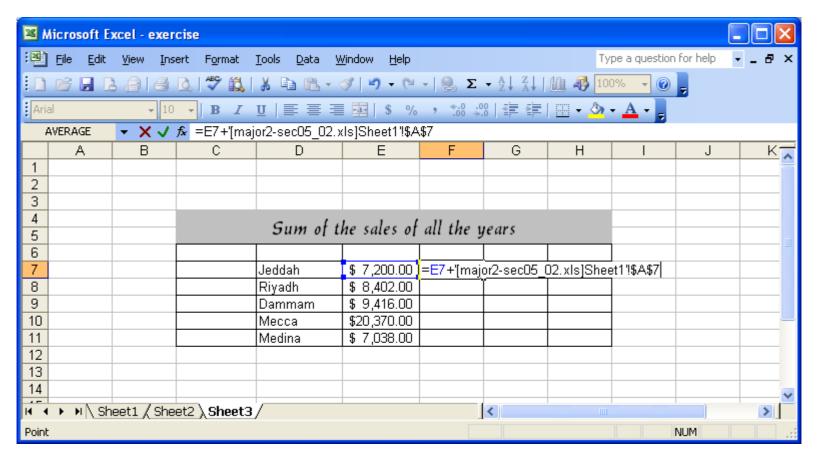
Formula References

□ Formulas across different worksheets

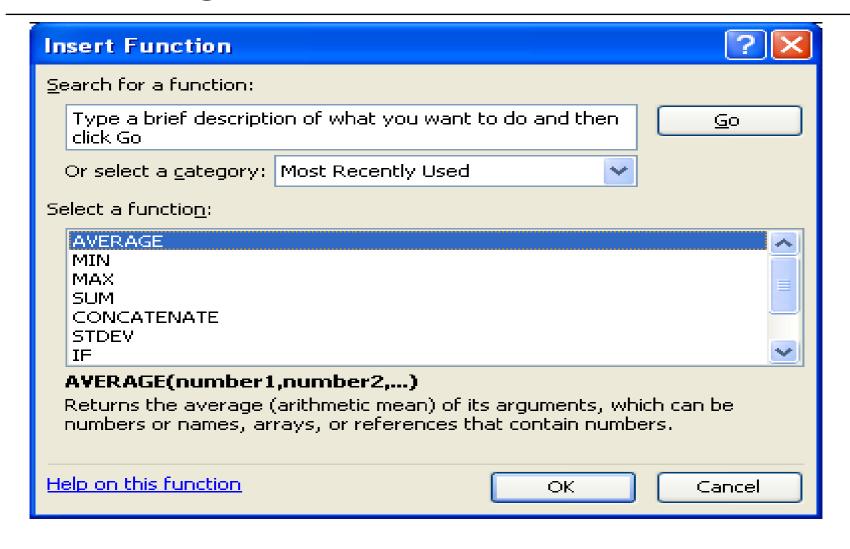


Formula References

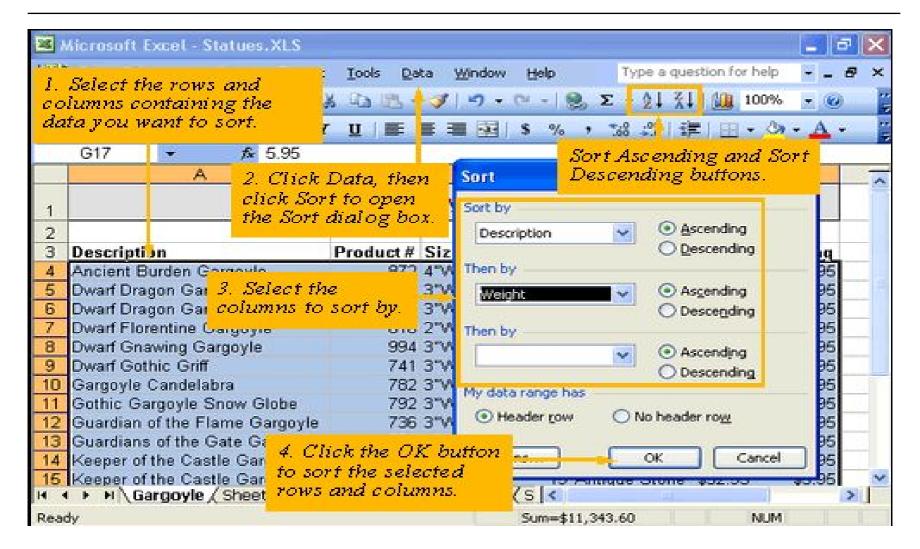
□ Formulas across different workbooks



Working with Functions



Sorting data in a worksheet



Charting Excel Data

Charting Excel Data

- □ In this section, we will learn
 - Charting terminology
 - Various chart types
 - To choose a right type of chart for the data
 - To build a useful and attractive chart
 - To format chart for dynamic visual effects
 - To print workbook and worksheets

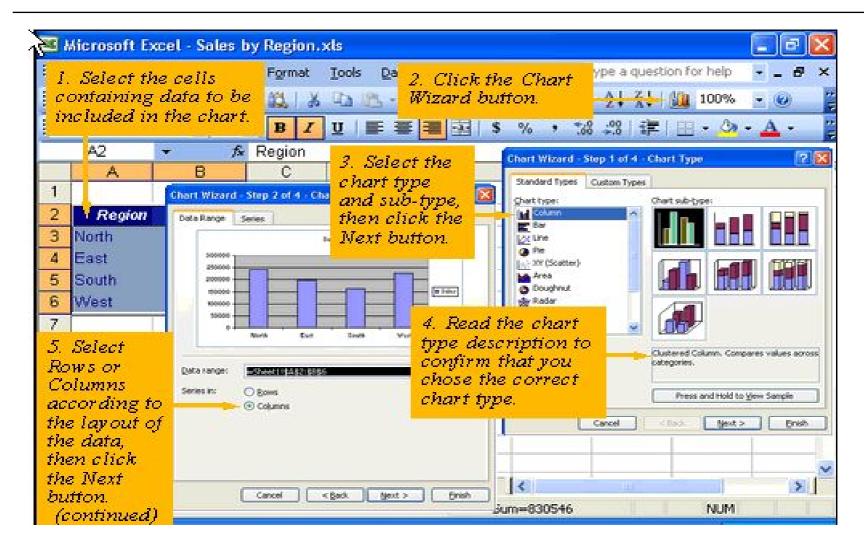
Charting Terminology

- □ Chart axes
 - Chart's data is plotted along a vertical value axis and horizontal category axis
- □ The legend
 - A legend explains the data represented
- □ Title
 - There can be a title for the chart and a title for each axis
- □ Gridlines
- □ Plot area
 - Portion of the chart where the data is plotted
- □ Data points --- each number in the worksheet
- □ Data series --- a logical collection of related data points

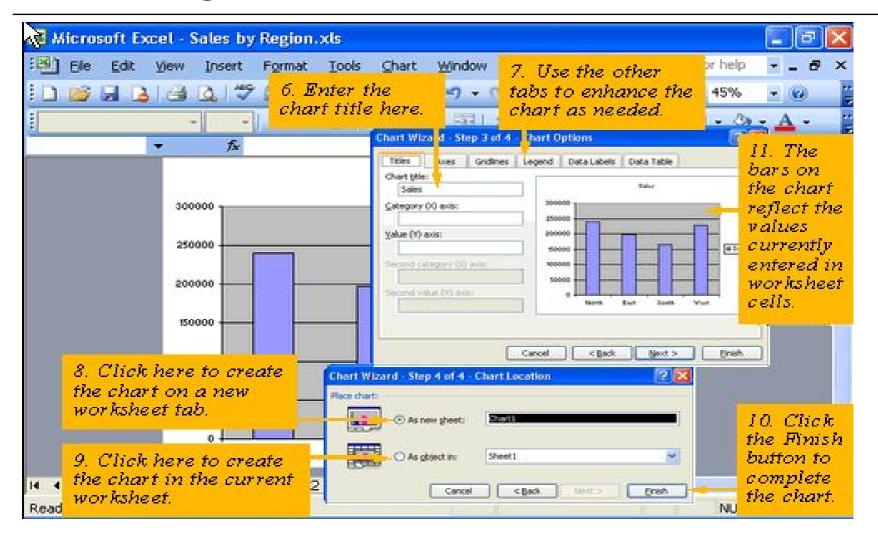
Various Chart Types

- □ Line charts and column charts are good choices for showing trends.
- □ Pie, bar, column, doughnut, and area charts are best for showing comparisons.
- □ Column charts can be used to show frequency.
- □ Scatter charts can be used to show a distribution of data. In a scatter chart, each dot indicates a response or an occurrence of an event.

Creating charts



Creating charts

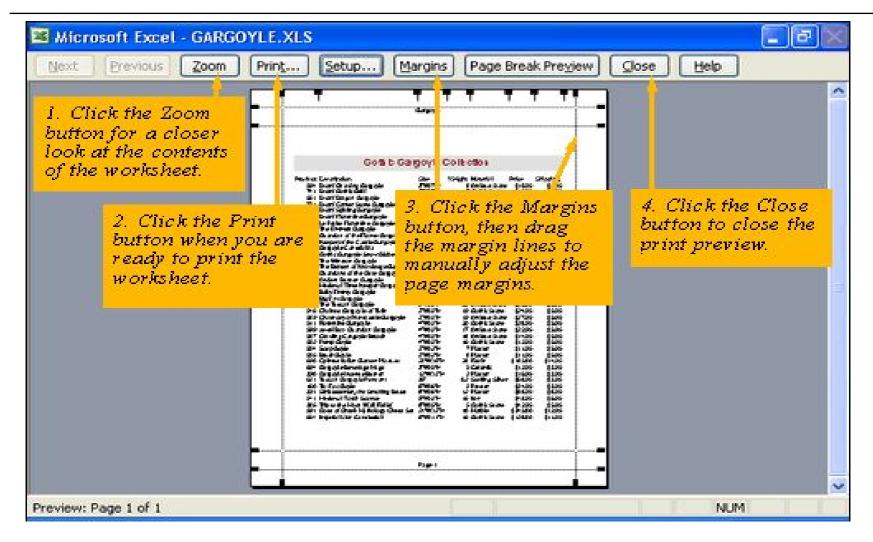


Updating and Changing Charts

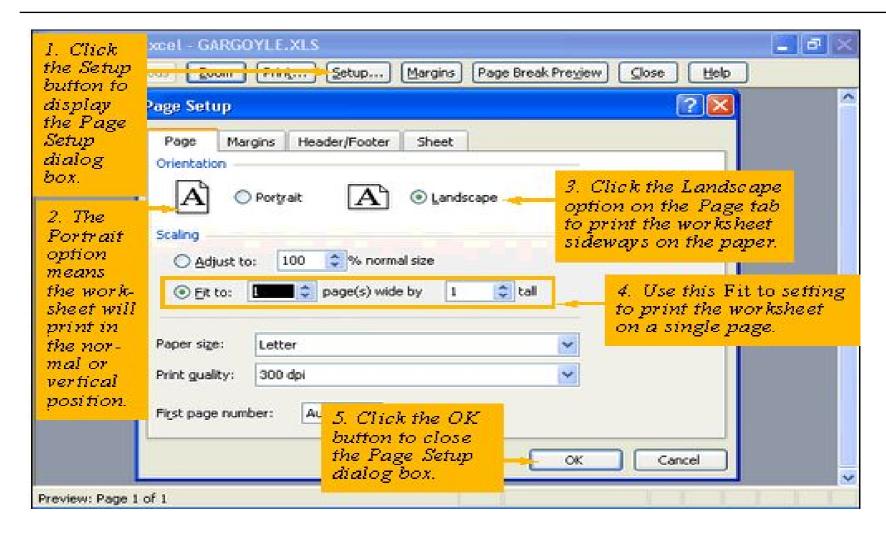
- □ When the data is changed, the chart is updated automatically provided the chart is in the same worksheet or in a different worksheet of the same workbook.
- □ If you need to modify the range of the cells in the chart choose Chart → Source Data
- □ If you want to add to the existing range choose Chart → Add Data

Previewing and Printing a Worksheet

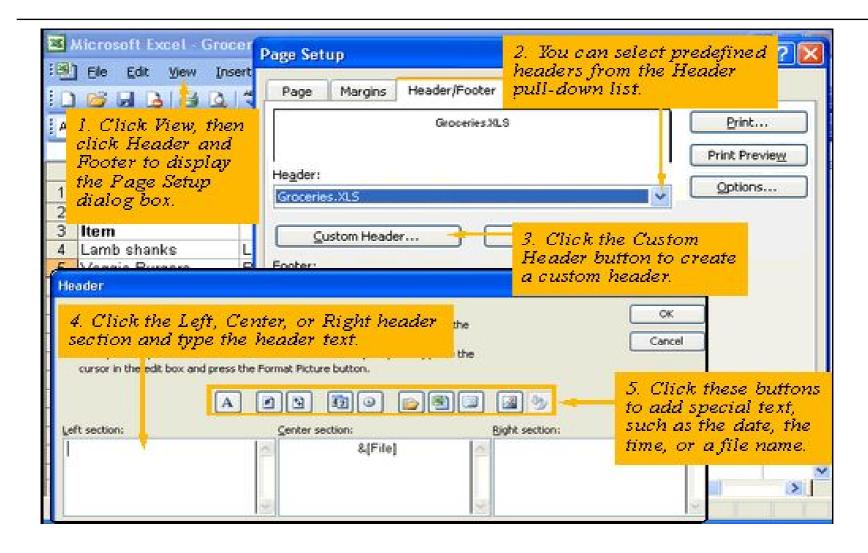
Print Preview and Page setup



Print Preview and Page setup



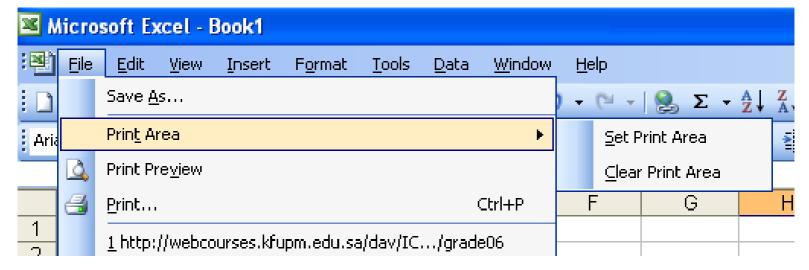
Headers and Footers



Printing a Worksheet

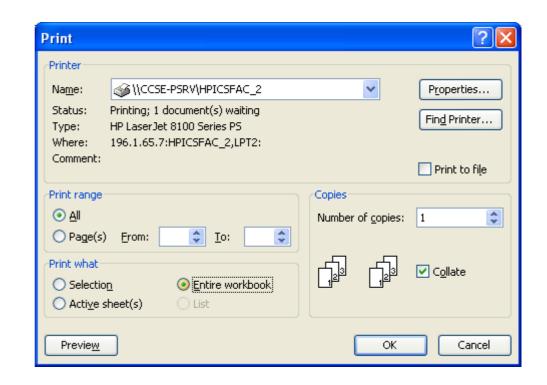
- □ Setting the print area
 - MS Excel allows you to print only a portion of your worksheet. It can be done by setting a print area.
 - To set a print area, select the portion of the worksheet you want to print then choose

File → Print Area → Set Print Area



Printing Workbook and Worksheets

- □ To print the entire workbook choose File → Print and check the Entire workbook radio button.
- □ You can preview by clicking the Preview button.



Printing Active Worksheets

