Microsoft[®] Office 2013 First Course Second Course Third Course

Excel 2013 UNIT A

Getting Started with Excel 2013

Objectives

- Understand spreadsheet software
- Identify Excel 2013 window components
- Understand formulas
- Enter labels and values and use the AutoSum button



Objectives

- Edit cell entries
- Enter and edit a simple formula
- Switch worksheet views
- Choose print options

- Microsoft Excel is an electronic spreadsheet program
 - An electronic spreadsheet program allows you to perform numeric calculations
 - The spreadsheet is called a worksheet
 - Individual worksheets are stored in a workbook which is the Excel file

- Advantages of using Excel
 - Enter data quickly and accurately
 - Recalculate data easily
 - Perform what-if analysis
 - Change the appearance of information
 - Create charts
 - Share information
 - Build on previous work

Excel worksheet

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- The Name box displays the active cell address
- The formula bar allows you to enter or edit data in the worksheet
- The intersection of a row and a column is called a cell

Identify Excel 2013 Window Components

- Each cell has its own unique location called a cell address
- The cell in which you are working is called the active cell
- Sheet tabs let you switch from sheet to sheet in a workbook

Identify Excel 2013 Window Components

- The status bar provides a brief description of the active command or task in progress
- The mode indicator provides additional information about certain tasks

Identify Excel 2013 Window Components

• Selected range

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- Formulas are equations in a worksheet
- When creating calculations in Excel, it is important to:
 - Know where the formulas should be
 - Know exactly what cells and arithmetic operations are needed

- When creating calculations in Excel, it is important to:
 - Create formulas with care
 - Use cell references rather than values
 - Determine what calculations will be needed

Viewing a Formula

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Excel arithmetic operators

operator	purpose	example
+	Addition	=A5+A7
•	Subtraction or negation	=A5-10
•	Multiplication	=A5*A7
1	Division	=A5/A7
%	Percent	=35%
^ (caret)	Exponent	=6^2 (same as 6 ²)

Enter Labels and Values and Use the AutoSum Button

- Labels contain text and numerical information not used in calculations
- Values are numbers, formulas, and functions that can be used in calculations
- A function is a built-in formula
 - A function includes arguments, the information necessary for the calculation

Enter Labels and Values and Use the AutoSum Button

- Clicking the Sum button sums the adjacent range above or to the left, though you can adjust the range
- The fill handle fills cells based on the first number sequence in the range

Enter Labels and Values and Use the AutoSum Button

Creating a formula using the AutoSum button

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Edit Cell Entries

- You can change, or edit, the contents of an active cell at any time
- To edit the contents of the active cell:
 - Double-click the cell, or
 - Click in the formula bar, or
 - Just start typing
- Excel switches to Edit mode when you are making cell entries

Editing Cell Entries

Worksheet in Edit mode

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Editing Cell Entries

Common pointers in Excel

name	pointer	use to	visible over the
Normal	\triangleright	Select a cell or range; indicates Ready mode	Active worksheet
Fill handle	+	Copy cell contents to adjacent cells	Lower-right corner of the active cell or range
I-beam	Ι	Edit cell contents in active cell or formula bar	Active cell in Edit mode or over the formula bar
Move	÷.	Change the location of the selected cell(s)	Perimeter of the active cell(s)
Сору	R‡	Create a duplicate of the selected cell(s)	Perimeter of the active cell(s) when [Ctrl] is pressed
Column resize	↔	Change the width of a column	Border between column heading indicators

Enter and Edit a Simple Formula

- Formulas start with the equal sign (=), also called the formula prefix
- Calculation operators in formulas indicate what type of calculation you want to perform
- Arithmetic operators perform
 mathematical calculations
 - Examples of arithmetic operators are
 + * / % ^

Enter and Edit a Simple Formula

- Comparison operators compare values for the purpose of true/false results
 - Examples of comparison operators are
 > < >= <= <>
- Text concatenation operators join strings of text in different cells
 - An example of a text concatenation operator is &

Enter and Edit a Simple Formula

- Reference operators enable you to use ranges in calculations
 - Examples of reference operators are
 - : , (space)

Switch Worksheet Views

- You can change your view of the worksheet window by using either:
 - View tab on the Ribbon
 - View buttons on the status bar
- Normal view shows the worksheet without including headers and footers or tools like rulers and a page number indicator

Switch Worksheet Views

- Page Layout View provides a more accurate view of how a worksheet will look when printed
 - It shows page margins, headers and footers, rulers, etc.
- Page Break Preview displays a reduced view of each page of the worksheet, along with page break indicators

Switch Worksheet Views

Page Layout View



Switching Worksheet Views

Page Break Preview



Choose Print Options

- You can see how a worksheet would look when printed using:
 - Page Layout tab
 - The dotted line indicates the print area, the area to be printed
 - Print Preview
 - You can print from this view by clicking the Print button on the Ribbon

Choosing Print Options

- Page Layout tab
 - Page Setup group
 - Print orientation: landscape or portrait
 - Scale to Fit group
 - Sheet Options group
 - Printing in Backstage view lets you choose the number of copies, the printer, etc.

Choosing Print Options

Worksheet with Portrait orientation

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Choosing Print Options

Worksheet in Backstage view



Summary

- Understand spreadsheet software
- Identify Excel 2013 window components
- Understand formulas
- Enter labels and values and use the AutoSum button

Summary

- Edit cell entries
- Enter and edit a simple formula
- Switch worksheet views
- Choose print options