CPSC 203: Introduction to Problem Solving Using Application Software

Shahedul Huq Khandkar
shkhandk@ucalgrary.ca
shahedk@gmail.com

Introduction

Tutorial: 01

Lecture: L01

Instructor: **Angela Duta**

Lab: Tuesday & Thursday 11:00 - 11:50

TA: **Shahed**

Office: ICT 524

CT: Thursday 18:00 - 19:00 (MS 237)
    Friday 2:00 - 3:00 (MS 237)

Email: shkhandk@ucalgary.ca, shahedk@gmail.com

About Lab & Assignments

- You need CPSC username & password to access the computers
- All personal files will be deleted when you logout
  - Use memory sticks or network storage to save your work/assignments.
- Your assignments must be compatible to **Microsoft Office 2007**

Web Sites

- http://wiki.ucalgary.ca/page/Courses/Computer_Science/CPSC_203/CPSC_203_Template
  - *Google: CPSC 203 wiki*
- *http://wiki.ucalgary.ca/page/Courses/Computer_Science/CPSC_203/CPSC_203_Template/Winter_2010_Teaching_Assistants*
- http://cpsc203.blogspot.com

Quiz & Assignments

- You are allowed to bring books/documents in quiz
  - But only hard copies, no internet access
- There will be individual & group assignments
  - Generally, you have to submit assignments via *BlackBoard*
- Schedule for assignments & quizzes are available in *BlackBoard*

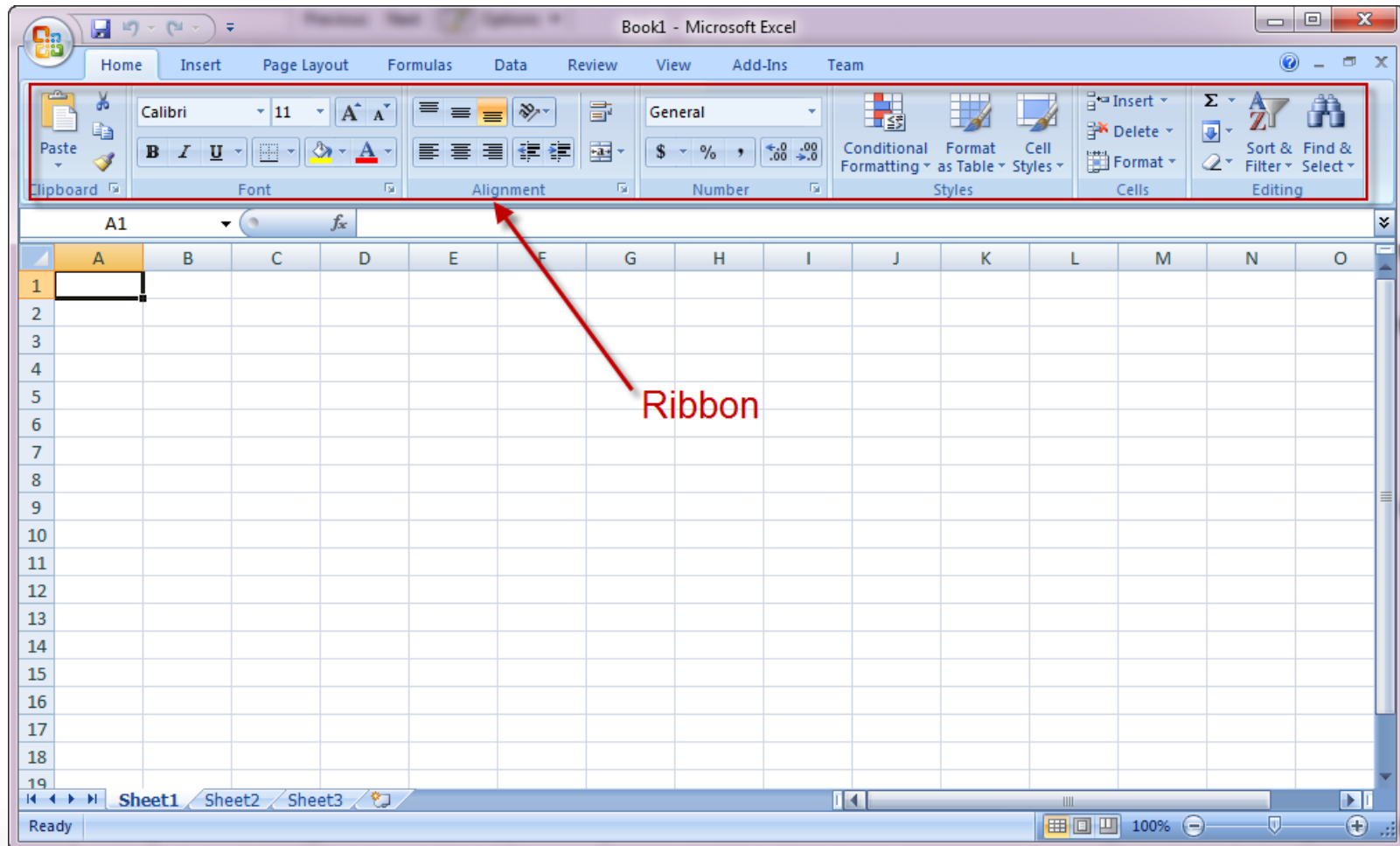# Lab 1: Introduction to Spreadsheets and Basic Calculations

Topic:

- Introduction to Microsoft Excel 2007
- Data entry
- The AutoFill feature
- Set-up appropriate field formats. (i.e. currency, numbers, text, etc.)
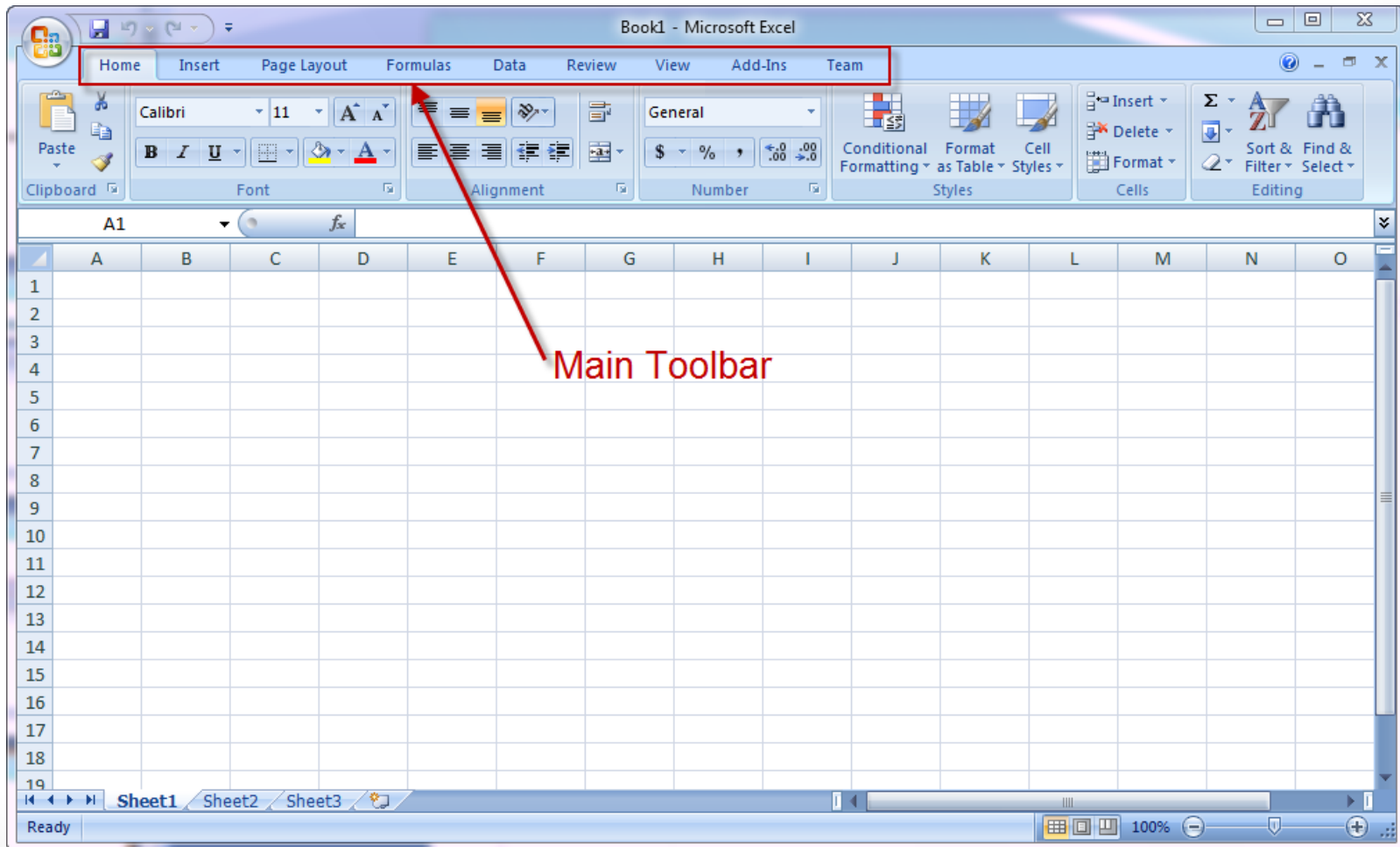- Use functions to calculate basic statistics
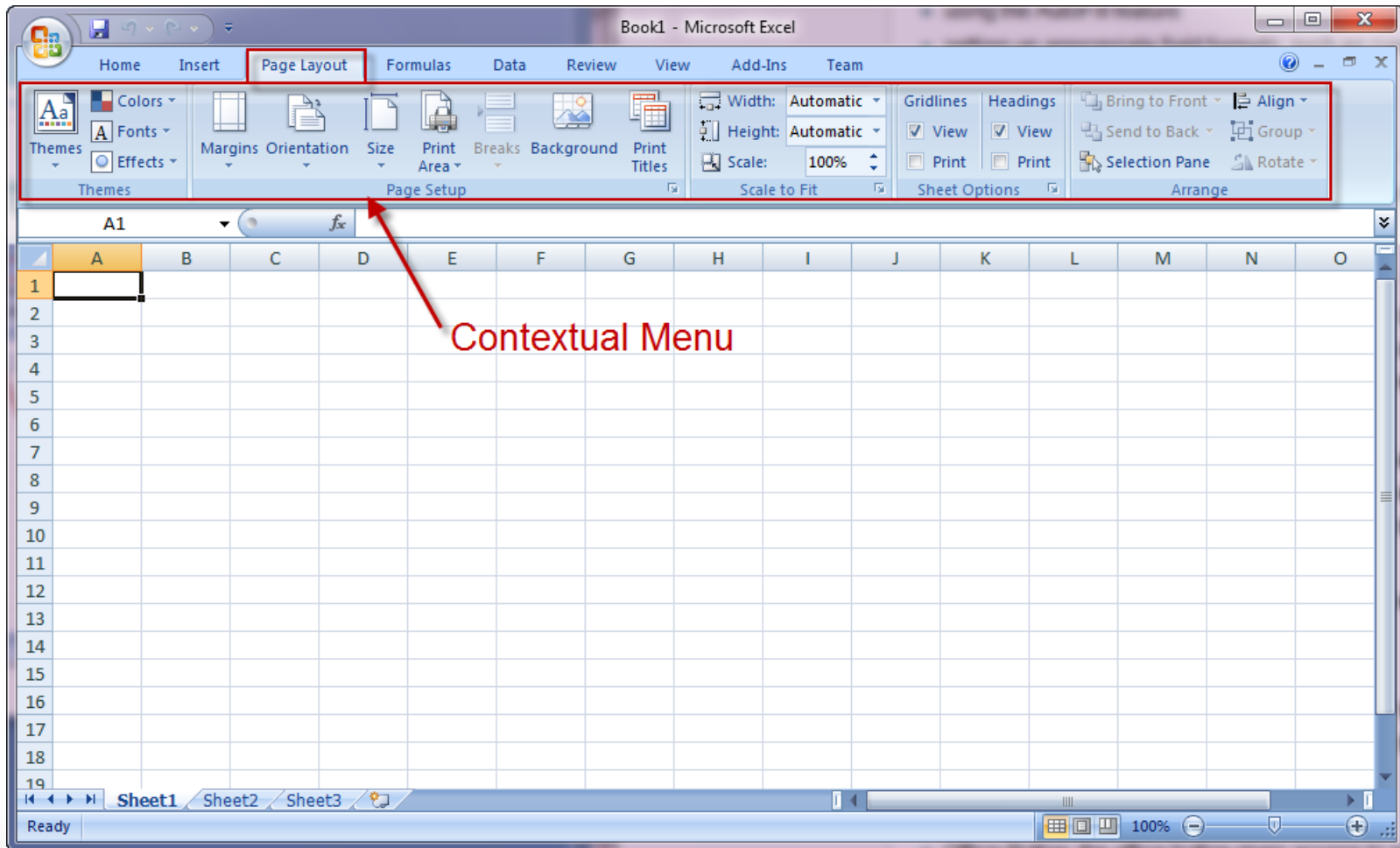
Introduction to Spreadsheets
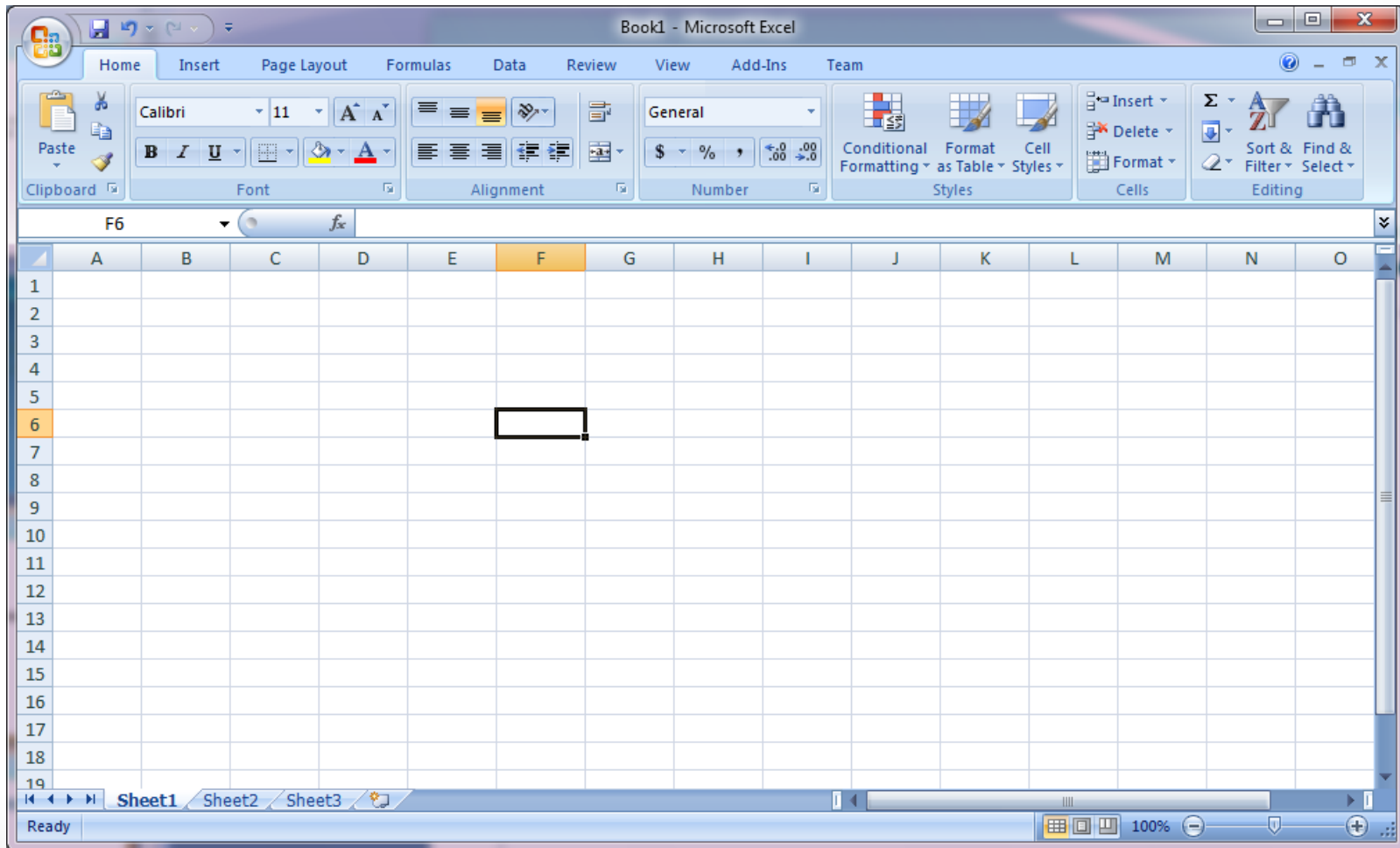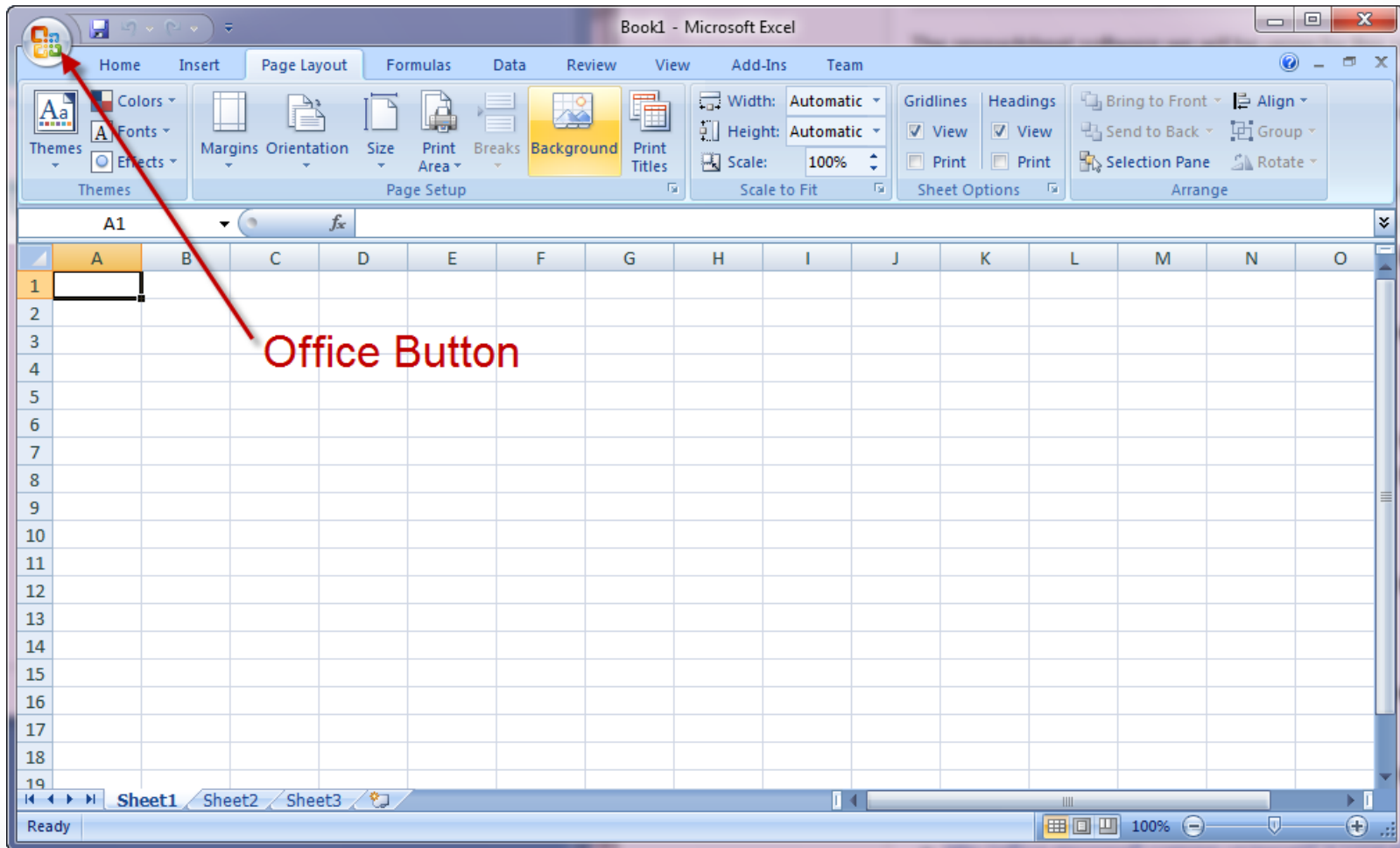
Introduction to Spreadsheets

Ribbon

Introduction to Spreadsheets

Main Toolbar

Introduction to Spreadsheets

Contextual Menu
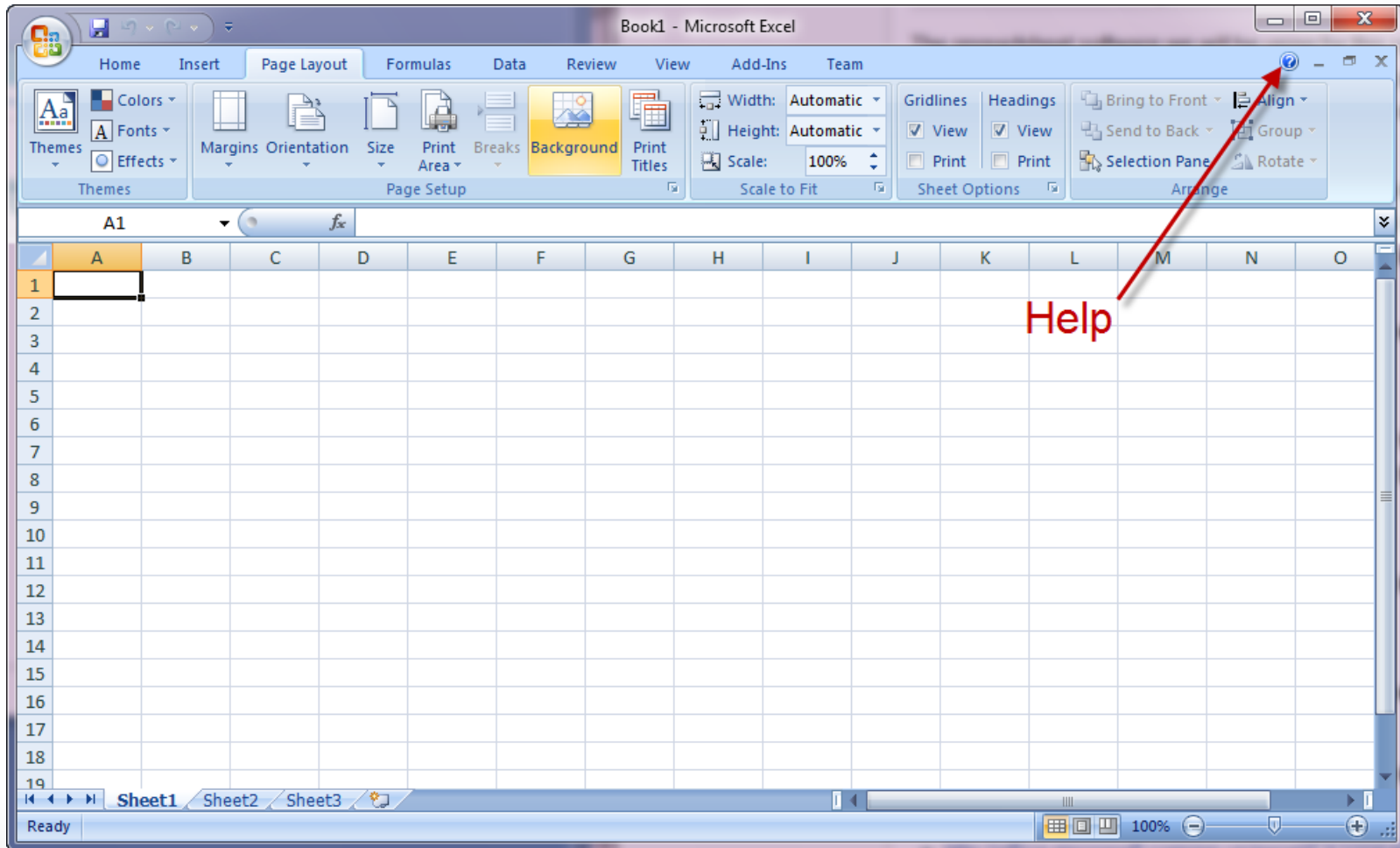
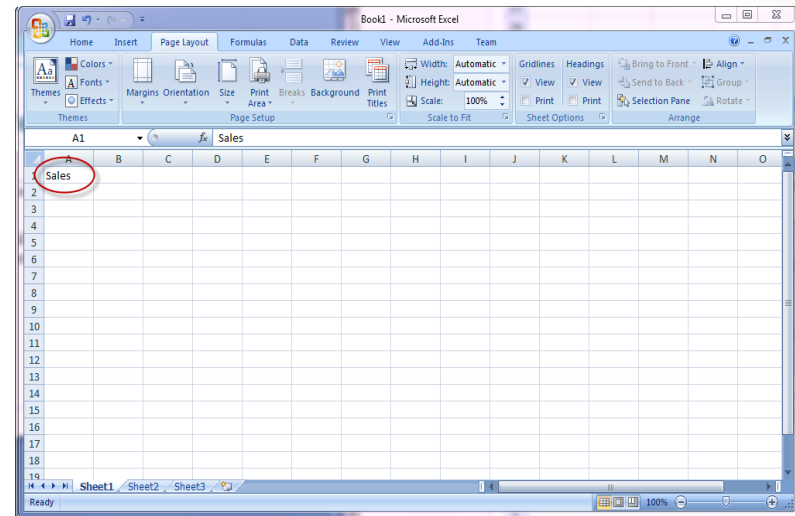# Introduction to Spreadsheets

Introduction to Spreadsheets

Type in some basic data

- Start Microsoft Excel 2007

- Click in a cell

- Use the keyboard to add a number or text to the cell (e.g. Sales)

- To complete the entry, press the 'Enter' key

AutoFill a field(s)
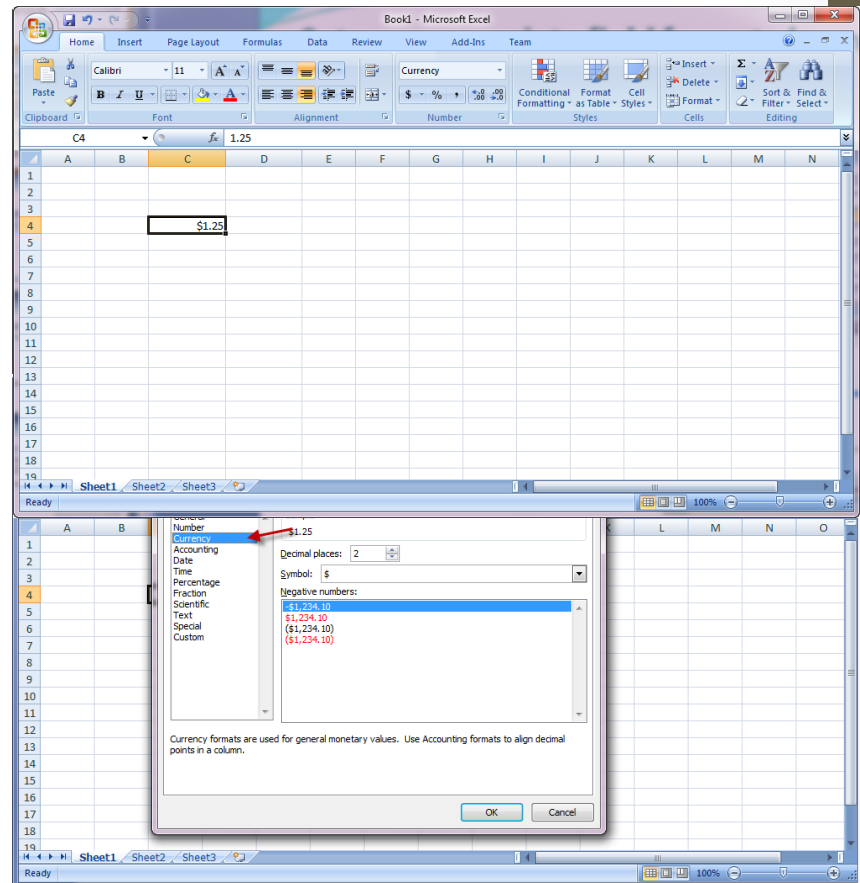
The Auto-Fill feature:

- Can be used with both numbers and text

- Can be applied to both rows and columns

- The start of a sequence must be given. As few as two cells with numbers or text can be used
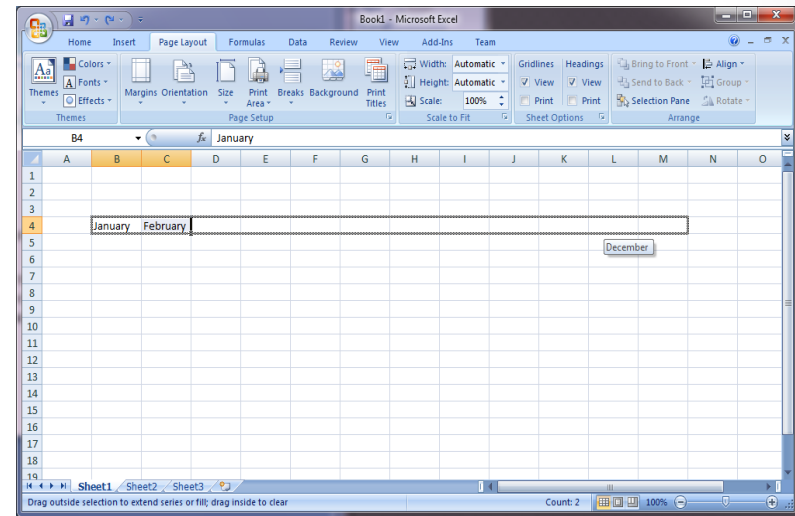
Set-up appropriate field formats (currency, numbers, text, etc.)

To set field formats:

- Select the cell you
  - Use the ribbon
    - 'Number' contextual menu as part of 'Home' in the main toolbar)

Or,

- Right-click using your mouse
  - Select 'Format Cells' from the drop-down menu to open a new panel
  - Select the 'Number' tab in the new panel.
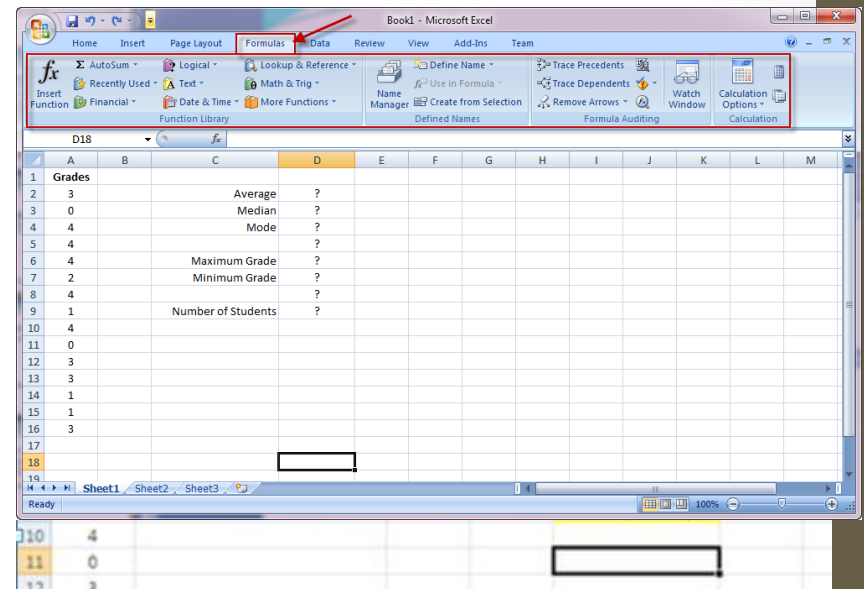
Calculate basic statistics

Calculate basic statistics

Some basic statistics:

- Count
- Min
- Max
- Average
- Median
- Mode
- Standard Deviation

How to use a Function

- Functions can be specified
  - directly in cells (using cell number or range)

  Or,

  - In the function Toolbar

=MIN(A2:A16)

Some Functions in Excel

- COUNT( ) function gives the number of cells that contain numbers
  - syntax *=COUNT(value1, value2, ...)*
  - *Or,   =COUNT(cell address, cell address, ...)*
  - *Or,   =COUNT(first cell address : last cell address)*

=Count(A2:A13)

Some Functions in Excel

Function	Description
Count	The number of cells that contain numbers
MIN	The smallest value in a set of numbers
MAX	The largest value in a set of numbers
AVERAGE	The average, or arithmetic mean value in the set of numbers
MEDIAN	The middle number in a set of numbers
MODE	The most frequently occurring value of a set of numbers

Questions?

Exercise