More On Spreadsheets

Chapter 15

Plotting Data

- Select the data to graph and click the Chart button.

Plotting Data

- Choose the type of graph based on how you want to visualize the data.
- As with all software, explore the interface to familiarize yourself with what is available.

Exercise: Plotting Names

- Plot the popularity over the years of a given name.
  - http://www.ssa.gov/OACT/babynames/

Naming Cells

- Can rename cells to make them easier to remember and use in other formulas.
- Column letter and row number name is still usable.
  - In the example to the right, cell can be referred to as D12 or LabGrade
Using Multiple Sheets

- Certain tasks are better managed using multiple sheets.
- For example, one sheet could have a list of grades, while another sheet has the grade statistics.

Referencing Other Sheets

- Referencing a cell on another sheet, general syntax: `<sheet name>!<cell name or range>`
- Examples:
  - Sheet1!D4
  - Grades!C1
  - Sheet2!E4:E9

  - Cells that have been renamed (like LabGrade) can be referenced with just the name (e.g., LabGrade) regardless of which sheet the cell is located.

More On Functions

Exercise: Planning A Trip

- Compute the total cost for the following trip assuming 22 MPG (or 5.81 MPL) and 0.948 US cents per Canadian cent.
- Store the assumptions on the same sheet and name them.
- US prices are per gallon. Canadian prices are per liter.
- You will find IF and LEFT useful.

Usage: IF, LEFT

- How to use IF:
  - IF(logical_test,value_if_true,value_if_false)
  - Checks whether a condition met, and returns one value if TRUE, and another value if FALSE.

- How to use LEFT:
  - LEFT(text,[num_chars])
  - Returns the specified number of characters from the start of a text string.

Scenarios

- A scenario lets you speculate on outcomes based on different inputs.
- Choose “Scenarios...” under the Tools menu.
- After creating a scenario, choose “Summary...” to see the possible outcomes.
- NOTE: All cells referenced in a scenario must be on the same sheet.
Scenario Summary

Filtering

- Lets you select only certain rows from a list.
  - For example, how many times did you make a stop for gas?

<table>
<thead>
<tr>
<th>Scenario Summary</th>
<th>Filtering</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Excel Tricks

- "10 obscure Excel tricks that can expedite common chores"

Spreadsheet Software

- OpenOffice.org Calc
- Microsoft Excel
- Gnumeric