**ENR 161 Fall 2017 Excel Chapter 2 Homework**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step 1:

Watch the Video Entitled, **ENR161 Ch02 HW F16**, this video is stored on the M drive at MCC. You may also access this video on **youtube.com** by entering **ENR161 Ch02 F16** into the youtube.com search box.

Step 2:

Complete the questions and problems below.

1. In the Loan worksheet tutorial what function did the author use to compute the monthly payment amount? How did he find this function?

2. The general form of the round function is: Round(X,N). Give some examples of how the round function works with values of N that are positive and negative.

3. Give an example of what conditional formatting is used for.

4. List the steps for copying a worksheet to a new tab in a workbook.

5. In the Cells/Format menu how can you determine if a cell is locked or unlocked?

**Grade for Questions (0-10)** \_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem Stamp or Grade**

**Pages 63-66, Sphere Worksheet**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name the worksheet **Sphere**.

Starting with Ex 2.1 on page 63, follow the instructions through Fig 2.17 on page 66.

**Pages 67-72, Loan Worksheet** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name the worksheet **Loan**.

Starting with the Loan Amortization Table application on page 67, follow the instructions through Fig 2.26 on page 72. Change the numerical contents in rows B, C, D, and E to Accounting Format as explained on pages 91 and 92 and using the Format Painter as explained on pages 72 and 73.

**Pages 89-91, Example 2.2, Distance Worksheet**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name the worksheet **Distance**.

Instead of using the formula =D3/0.6214, define a cell with the value 0.6214 and name the cell **MilesPerKm**, then use this cell to compute the distance in km with the formula **=D3/MilesPerKm**.

**Pages 100-104, Temperature Worksheet** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name the worksheet **Temperature**.

1. Enter the data as shown in Figure 2.73.

2. Use the Format as Table command to change the data to an Excel table with either method 1 or method 2 described on page 101.

3. Sort the T5 column from largest to smallest as shown in Figures 2.75 and 2.76.

4. Add a Total Row column as shown in figure 2.78.

5. Use the drop down menu in each column of the total row to compute the average temperature of each column.

**Pages 103-107, Formatting Worksheet** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Right click on the **Temperature** tab at the bottom of the worksheet and select **Move/Copy** and click on the **Create a Copy** box.

2. Rename the **Temperature (2)** worksheet tab to **Formatting** and drag it to the right of the Temperature tab.

3. Deactivate the Excel table as described on pages 105-107.

4. Apply conditional formatting so that any sample temperature above 248.0 is highlighted with a black fill color and white text as described on pages 105-107.

**Pages 112-116, Protection Worksheet** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Right click on the **Loan** worksheet tab and select **Move/Copy** and click on the **Create a Copy** box.

2. Rename the **Loan (2)** worksheet tab to **Protection** and drag it to the right of the **Formatting** tab.

3. Unlock cells D3, D4, D6, and D7 as shown in figure 2.91.

4. Add a yellow fill color and apply borders around cells D3, D4, D6, and D7.

5. Add a note in your spreadsheet instructing users to input values in the yellow cells and inform them that the other cells are protected.

6. Make sure that cells D8 and B12 are driven by the formulas.

7. Protect the worksheet and use the password ENR161.

**Page 122, Problem 2.1, Loan I**

1. Name the worksheet **Loan I**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Format the amortization data neatly.

3. Add a border and a yellow fill to the cells containing the **Total Interest**, **Total Principal**, and **Total Payments** cells. Add descriptive labels adjacent to these cells.

**Page 123, Problem 2.2, Loan II** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name the worksheet **Loan II** and follow the procedures for the Loan I sheet.

2. Include an **if** function in your **Paid on Principle** column so that the amount paid on principle in the last row of the table is equal to the **Principal Before the Payment**.

**Pages 123, Problem 2.4, Growth I** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name the worksheet **Growth I**.

2. With exponential growth the number of grains of rice will double as you move to each new square.

3. Highlight your answers to questions a, b, and c using a yellow fill and labels adjacent to these cells.