Centre for Continuing Education
420-WA5-AB
Foundations of Web Development

Lab Assignment 2   **Due: May 30, 2023**
Worth: 10%   *Late assignments are not accepted.*

Section 1: Create the following spreadsheet and save it as Lab2 Sales.xlsx

A	B	C	D	E	F	G
Stan Lee Industries						
Item Number	Quantity Sold	Initial Item Cost	Item Sale Price	Total Initial Cost	Total Gross Sales	Total Profit
p-100	45	26.58	32.75			
p-200	60	14.60	16.90			
p-300	70	203.69	221.50			
m-17	30	16.90	21.25			
m-18	610	34.57	41.00			
m-19	210	33.79	38.21			
b-10	80	66.58	72.49			
b-99	109	44.69	52.99			
Total Sales						
Total Cost						
Total Profit						
% of Profit						
Highest Profit						
Lowest Profit						

Steps:
1. Enter in the words "Stan Lee Industries" into cell A1 – merge and center.
2. Enter the column headings into row 2
3. Enter in the Item Numbers into column A
4. Enter the data in columns B through D
5. Determine:
    a. Total Initial Cost = Quantity Sold * Initial Item Cost
    b. Total Gross Sales = Quantity Sold * Item Sale Price
    c. Total Item Profit = Total Gross Sales – Total Initial Cost
6. B12 use the sum function for the Total Gross Sales from column F
7. B13 use the sum function for the Total Initial Costs from column E
8. B14 use a formula to subtract the Total Cost from the Total Sales
9. B15 use a formula to divide the Total Profit by the Total Cost
10. B16 use the max function to find the greatest Total Item Profit
11. B17 use the min function to find the least Total Item Profit
12. Widen Column A to 20 points
13. Change the height of row 1 to 40 points
14. Change the height of row 11 to 21.00 points
15. Change the width of columns C through G to 10.00 points
16. Format Cell A1: as such:
    a. Font Times New Roman, font size 18 point
    b. Individually change the first character of every word to 28 point, center the title across columns A-G
17. Format the following ranges C3:G3, B12:B14, and B16:B17 to currency with two decimal places
18. Format Range B4:G10 to comma format with two decimal places
19. Format cell B15 to percent format with 1 decimal place

20. Format Range A2:G2 to be bold, italicized, center, enable word wrap
21. Format Range A3:A17 Bold
22. Rename the worksheet tab from Sheet 1 to Sales
23. Create a second sheet in the same workbook that contains a 3D pie chart illustrating the profit figures. Use range A3:A10 & G3:G10. Name the tab for this sheet 3D Profit Chart
24. Save your work.

Section 2: Create the following spreadsheet and save it as 8-Pizza Profits.xlsx

~~Independent Challenge~~

You own and operate a pizzeria called Pete's Perfect Pizzas. You are building an Excel spreadsheet to calculate your profits for the previous year. You have entered sales and most of the expense data in the worksheet. Now you need to enter the necessary formulas to calculate the delivery costs and the profits for each month.
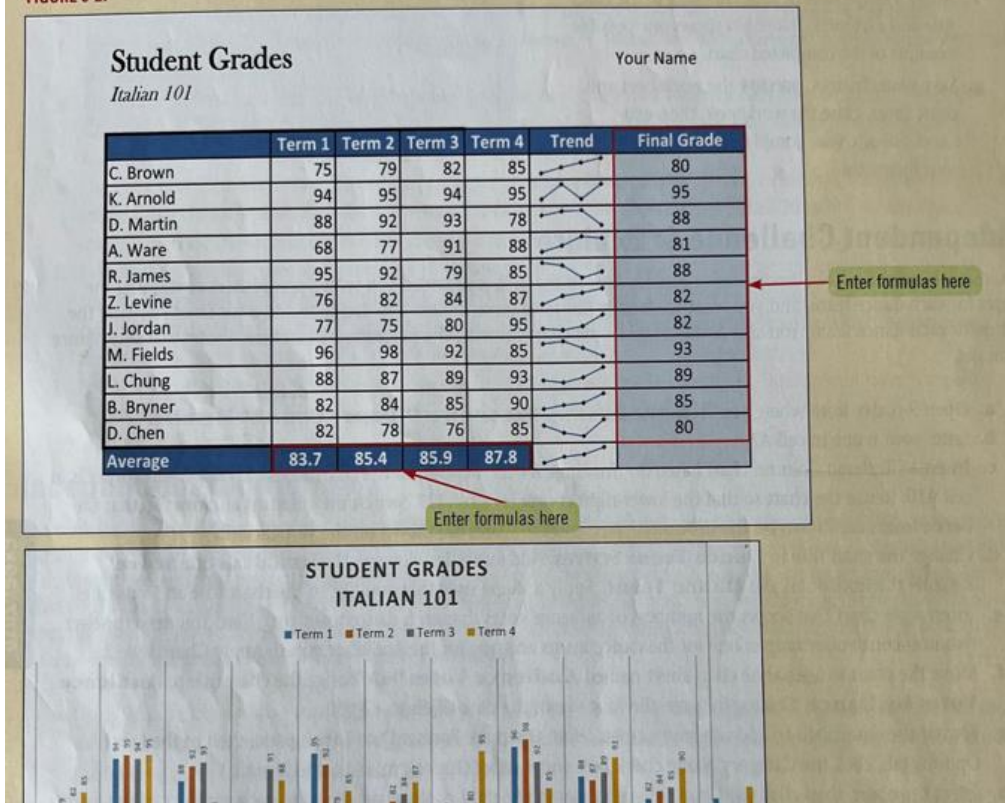
a. Open 8-5.xlsx from where you store your Data Files, then save it as **8-Pizza Profits**. Enter your name in cell A26.

b. Pete's Perfect Pizzas pays for food deliveries through a delivery service, which charges a flat fee per delivery, shown in cell B20. Enter a formula in cell I5 that calculates the cost of deliveries for the month of January. (*Hint:* The formula needs to multiply cell H5—the cell that contains the number of deliveries for January—by cell B20, with B20 as an absolute cell reference.)

c. Enter a complex formula in cell J5 that calculates profits for January. The formula should subtract the sum total of cells C5:G5 and cell I5 from B5 (Sales for January). (*Hint:* Start the formula with B5 followed by the – mathematical operator, followed by the SUM function to add cells C5:G5 and I5.)

d. Select cells I5 and J5, then use the fill handle in cell J5 to copy the formulas down the columns.

e. Enter a formula in cell B21 that identifies the highest profit amount.

f. Enter a formula in cell B22 that identifies the smallest profit amount.

g. Enter a formula in cell B23 that calculates the average monthly profit for all the months.

h. Apply Blue Data Bars Solid Fill conditional formatting to the cells J5:J16.

i. Format the range A4:J16 as a table, choosing any table style you like. Add a Total row. Use the fill handle to copy the formula in cell J17 to cells I17:B17. (*Note:* If any cells display #####, increase column widths until all cells display numbers.) Apply the General number format to cell H17. (*Hint:* Click the Home tab, click the Number Format list arrow in the Number group, then click General.)

j. Sort the table by the Profits column (Largest to Smallest).

k. Apply shading of your choice to cells A21: B24. Apply All borders around the shaded cells.

l. Preview the worksheet in Backstage view. Change the orientation to landscape, then adjust the scaling so all columns fit on one sheet.

m. Save your changes, close the workbook, then exit Excel. Submit your completed worksheet to your instructor.

Section 3: Create the following spreadsheet and save it as 9-Student Grades.xlsx

Open 9-7.xlsx from where you store your Data Files, then save it as **9-Student Grades**. Enter your name in cell G1. Modify the worksheet and add a chart sheet so that your workbook looks like **FIGURE 9-27**. You need to add a formula to the Final Grade column that calculates the average grades of Term 1-4. You also need to use the AVERAGE formula in cells B16:E16. Add sparklines as shown. Create the column chart as shown, moving it to a separate chart sheet named **Student Grades Chart**, and modifying it as necessary to match the figure. Save your changes, preview the worksheet and chart sheet, close the file, then exit Excel. Submit your completed workbook to your instructor.

FIGURE 9-27

Student Grades
Italian 101

Your Name

	Term 1	Term 2	Term 3	Term 4	Trend	Final Grade
C. Brown	75	79	82	85		80
K. Arnold	94	95	94	95		95
D. Martin	88	92	93	78		88
A. Ware	68	77	91	88		81
R. James	95	92	79	85		88
Z. Levine	76	82	84	87		82
J. Jordan	77	75	80	95		82
M. Fields	96	98	92	85		93
L. Chung	88	87	89	93		89
B. Bryner	82	84	85	90		85
D. Chen	82	78	76	85		80
Average	83.7	85.4	85.9	87.8		

Enter formulas here

Enter formulas here

STUDENT GRADES
ITALIAN 101

■ Term 1 ■ Term 2 ■ Term 3 ■ Term 4

Submit your files to the dropbox in the Assignment section on Moodle for Lab Assignment 2.