

Lab #13 Planning for Profit

This Project

Each student will create two pie charts to compare the warehouse costs and income from working a concession stand.

Materials

- Profit1.xls template from the CD-ROM

Before the Computer

- Define and explain the differences between income (or gross profit) and net profit.
- Introduce this lesson by announcing to the class the following scenario:
Your club will be in charge of the concession stand at the upcoming football game. Items must be purchased from the cafeteria's warehouse supplier. Your job is to decide how many of each item to purchase from the warehouse by estimating the number of items you think you will sell.
- Brainstorm factors that might affect sales (e.g. weather), which items would be most popular, and how to figure good estimates for ordering supplies.

A. Create a Spreadsheet

1. Open a new workbook document in *Excel*.
2. Go to the **FILE** menu. Select *Open*. Open the worksheet **Plan Profit Student** from the CD-ROM or your computer's hard drive. You will see a worksheet template.
3. Go to the **FILE** menu. Select *Save As*. Rename the file as (*your name's profits*).
4. Click in cell C4. Enter the number of pizza slices you wish to purchase from the warehouse.
5. Click in cell C5. Enter the number of hamburgers you wish to purchase.
6. Click in cell C6. Enter the number of nachos you wish to purchase. Continue to complete cells C7-C10 with your purchases.

	A	B	C	D
1	****WAREHOUSE COSTS****			
2				
3	Item	Price	Number Bought	Total
4	Pizza Slice	\$0.60		\$0.00
5	Hamburger	\$0.39		\$0.00
6	Nachos	\$0.45		\$0.00
7	Popcorn	\$0.13		\$0.00
8	Chips	\$0.14		\$0.00
9	Ice Cream	\$0.20		\$0.00
10	Soda/Lemonade	\$0.27		\$0.00
11				
12	Total Cost	\$0.00		

Lab 13 (cont.)

7. Click in cell C17. Enter the actual number of pizza slices sold from the chart below. The data for the actual sales of the other items can also be found in the chart.

Snack Item	Number Sold
Pizza slice	725
Hamburger	437
Nachos	685
Popcorn	248
Chips	999
Ice cream	102
Lemonade	974

8. Complete cells C17-C23 by typing each food item's sales in the proper cell. You can click in a cell to make it active, or press the **Enter** or **Return** key to get to the cell below.

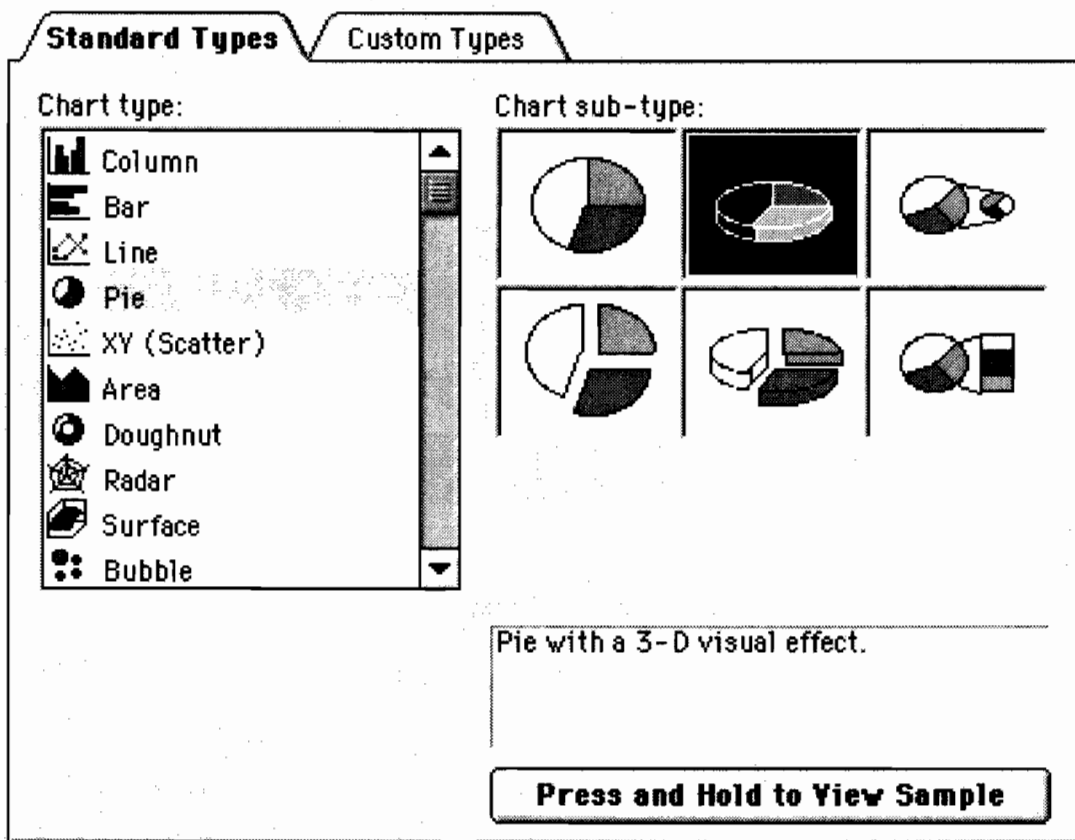
14	****Actual Sales****			
15				
16	Item	Price	Number Sold	Total
17	Pizza Slice	\$1.25	725	\$906.25
18	Hamburger	\$1.50	437	\$655.50
19	Nachos	\$1.00	685	\$685.00
20	Popcorn	\$0.75	248	\$186.00
21	Chips	\$0.50	999	\$499.50
22	Ice Cream	\$0.50	102	\$51.00
23	Soda/Lemonade	\$0.50	974	\$487.00
24				
25	Total Cost	\$3,470.25		

9. Save your data at this point and continue with part B.

Lab 13 (cont.)

B. Create a Pie Chart

1. Highlight cells A4-C10.
2. Go to the **INSERT** menu. Drag your mouse down to select **Chart**. You can also click on the **Chart Wizard** icon, which resembles a colorful bar graph, located on the upper right part of the tool bar.
3. Choose a **Pie Chart** from the **Chart Type** list.
4. Click on the **Pie with 3-D visual effect**, and click the **Next** button.

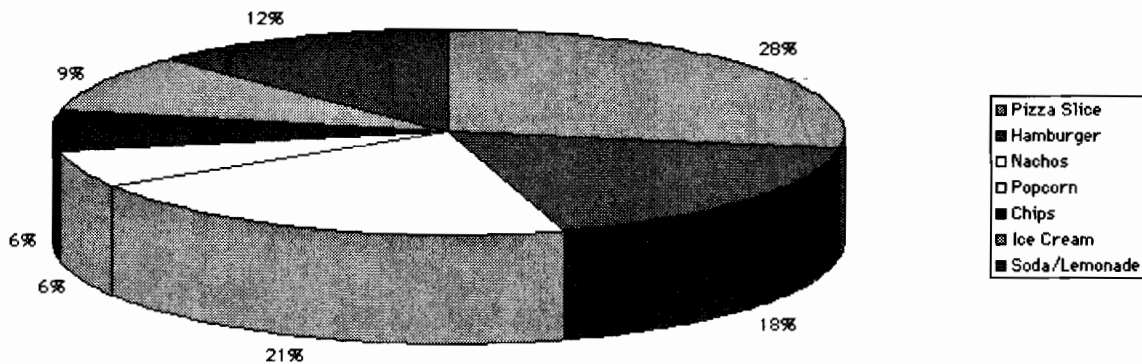


Lab 13 (cont.)

5. In the **Chart Source Data** window, click on **Series in: Columns**. Click the **Next** button again.
6. In the **Chart Options** window, click in the **Chart Title** text box. Type the title (*Warehouse Costs*).
7. Now click on the **Data Labels** tab. Click on **Show Percent**. Then click the **Next** button.
8. Click the **As New Sheet** button, title it (*Costs*). Then click the **Finish** button to display the chart.

Series in:	<input type="radio"/> Rows
	<input checked="" type="radio"/> Columns

Sample Warehouse Costs Pie Chart



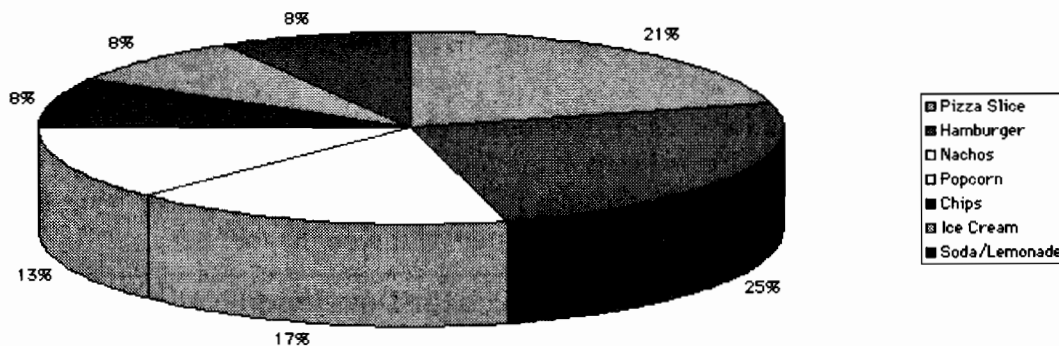
9. Save your file again at this point and continue with part C.

Lab 13 (cont.)

C. Create a Second Pie Chart

1. At the bottom of the screen, click the **Sheet 1** tab.
2. Highlight cells A17-C23.
3. Go to the **INSERT** menu and select **Chart**, or click on the **Chart Wizard** icon.
4. Choose a **Pie Chart** from the **Chart Type** list and click on the **Pie with 3-D visual effect**. Click the **Next** button.
5. In the **Chart Source Data** window, click on **Series in: Columns**. Click the **Next** button again.
6. In the **Chart Title** box, type the title (*Actual Sales*). Now click on the **Data Labels** tab. Click on **Show Percent**. Click the **Next** button.
7. Click the **As New Sheet** button, title it (*Sales*). Then click the **Finish** button to display your second chart.

Actual Sales



8. Now that you have completed your charts, compare them asking yourself the following questions:

Did I sell out of certain items? If so, why? How many different items did I sell out? Is that a good or bad thing?

How many items did I undersell? By how much?

Were there any items where the percentage of total income was greater than percentage of total costs? How many?

Were there any items where the percentage of total income was less than percentage of total costs? How many?

This completes the activity.

Remember to save your file.