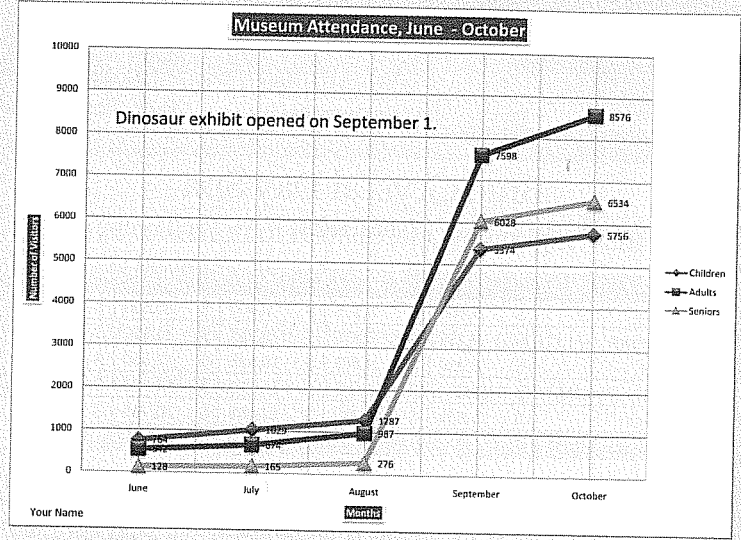# ▼ INDEPENDENT CHALLENGE 3 (CONTINUED)

e. Add minor vertical gridlines to the chart. Add an appropriate vertical-axis title that is rotated, then add an appropriate horizontal-axis title.

f. Apply a solid color fill to the plot area, choosing a color you think looks good. (*Hint:* To select the plot area, open the Layout or Format tab, click the Chart Elements list arrow in the Current Selection group, and click Plot Area. Then open the Format Plot Area dialog box and specify a fill color.)

g. Apply a shape style of your choosing to the chart title and axis titles.

h. Insert a text box and type the following text in it: **Dinosaur exhibit opened on September 1.**

i. Add another text box below the chart, then type your name in it. Figure I-27 shows one possible example of the completed chart.

j. Switch to the Sheet1 worksheet that contains the chart data, type your name in cell A9, then print the worksheet.

k. Save your changes, preview the chart, print the chart, close the file, then exit Excel.

FIGURE I-27

▼ REAL LIFE INDEPENDENT CHALLENGE

Creating a personal budget is a great way to keep your finances in order. In this challenge, you will create a personal budget for monthly expenses. For the purposes of this exercise, imagine that you earn $2000 per month. Your budget needs to include categories of expenses and the amounts for each expense. The total expenses in the worksheet must add up to $2000. Once you enter all your monthly expenses in the worksheet, you will then create a pie chart that shows the percentage of each individual expense.

a. Start a blank Excel workbook, and save it as **Personal Budget** where you store your Data Files.

b. Enter an appropriate title for your budget in cell A1. Format the title so that it stands out.

c. Create a two-column worksheet starting in cell A3 that contains your budget. Enter the label **Expense** in the first column heading and enter the label **Amount** in the second column heading.

d. Enter labels for the expenses in the cells below the Expense heading. Enter appropriate amounts for each expense in the cells below the Amount heading.

e. When you have entered all your expenses in the worksheet, enter the label **Total** in the first cell of the last row. Enter a formula in the second cell of the last row that totals all the dollar amounts in the Amount column. If the returning value in the formula cell does not add up to $2000, then adjust the numbers in your budget so that the total adds up to $2000.

f. Insert a pie chart based on the data in your chart. (*Hint:* Remember not to include the Total row when you select the data; select only the heading row, the labels, and expense amounts.) Choose any pie chart option that you like. Move the chart so it is located below the worksheet data.

g. Apply a chart layout and chart style to the chart that you think looks good. If the chart layout that you chose does not include a chart title, add one to the chart using the appropriate options on the Chart Layout tab.

h. Enter your name in a cell below the chart.

i. Save your changes, preview the worksheet with the chart, print the worksheet, close the file, then exit Excel.