New Skills Reinforced:

In this activity, you will practice how to:
1. create a pie chart.
2. enhance charts by changing colors and font sizes.

Activity Overview:

American Idol® has truly become one of America's biggest and most watched television shows. With its debut in the summer of 2002, this show, based on Britain's Pop Idol, became an instant success. Hosted by Ryan Seacrest, the Dick Clark of our day, American Idol® grows bigger and bigger each season. The show's three judges, Simon Cowell, Paula Abdul, and Randy Jackson have become household names, along with the winning contestants from each season.

The authors of this book surveyed 24 American Idol® viewers and asked who their favorite American Idol® singer was. The following activity illustrates how spreadsheets can be used to create a pie chart that illustrates this distribution.

Instructions:

1. Create a NEW spreadsheet.

   Note: Unless otherwise stated, the font should be set to Arial, the font size to 10 point.

2. Type the data as shown.

3. Change the font size of cell A1 to 16 point.

4. Format the width of column A to 26.0 and left align.

5. Format the width of column B to 22.0 and center align.

6. Bold rows 1 and 3.

NEW SKILL ▶ 7. Create a pie chart as follows:

   a. Select cells A1– B8.

   b. Using the Chart Wizard, select Pie for the Chart type. The Chart sub-type should be Pie.

   c. Set the chart to Series in Columns.

   d. Enter the chart title as "AMERICAN IDOL FAVORITES."

   e. Display the legend to the right of the pie chart.

   f. Show no data labels.

   g. Save the chart as a new sheet. Name the new sheet AMERICAN IDOL CHART.

NEW SKILL ▶ 8. Format the Chart Area with a background color of peach.

NEW SKILL ▶ 9. Format the colors of each piece of the pie chart as follows:

   a. Kelly Clarkson -> purple

   b. Reuben Studdard -> green

   c. Clay Aiken -> yellow

   d. Fantasia Barrino -> turquoise

   e. Carrie Underwood -> pink

NEW SKILL ▶ 10. Format the chart's legend background color to light blue and change the font size to 16 point.

NEW SKILL ▶ 11. Format the chart's title to blue and change the font size to 24 point and bold.

12. When formatted, your chart should look similar to the one provided in Figure 1-45.

13. Insert a header for both the spreadsheet and the chart that shows:

    a. Left Section   Activity 45-Student Name

    b. Center Section   AMERICAN IDOL

    c. Right Section   Current Date

14. Insert a footer that shows:

    a. Center Section   PAGE number

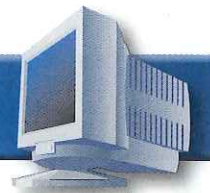15. Carefully proofread your work for accuracy.

16. Analyze the changes made to the data in the spreadsheet.

17. Save the spreadsheet as AMERICAN IDOL.

18. Print Preview and adjust the Page Setup so that the spreadsheet and the chart each fit on one page. Set the page orientation to landscape for the chart.
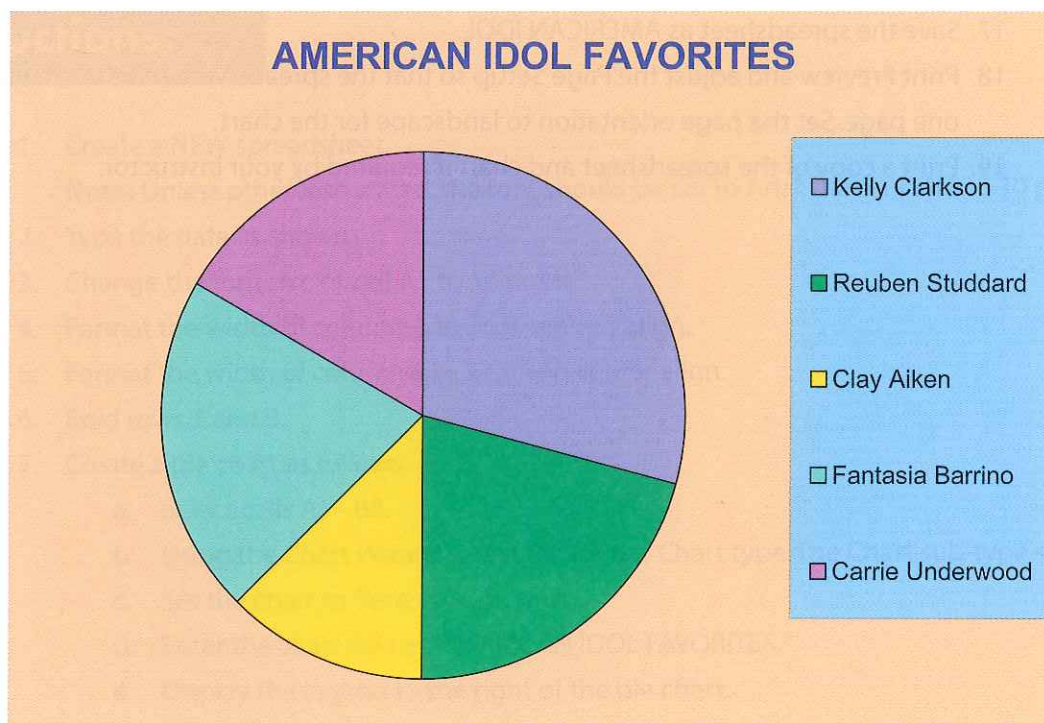
19. Print a copy of the spreadsheet and chart if required by your instructor.

	A	B	C
1	AMERICAN IDOL		
2			
3	CONTESTANT	VOTES FOR FAVORITE	
4	Kelly Clarkson	7	
5	Reuben Studdard	5	
6	Clay Aiken	3	
7	Fantasia Barrino	5	
8	Carrie Underwood	4	

Figure 1-45

AMERICAN IDOL FAVORITES

- Kelly Clarkson
- Reuben Studdard
- Clay Aiken
- Fantasia Barrino
- Carrie Underwood

New Skills Reinforced:

In this activity, you will practice how to:
1. create a column chart.

Activity Overview:

The existence of iTunes® has made it easy for anyone with a computer and an Internet connection to create and organize their own music and video library. Songs and music videos can be downloaded from Apple's® iTunes® Web site (*www.itunes.com*) quickly and easily. Users can share music with other users, create playlists, and take their music collections with them wherever they want on an iPod®. The popularity of iTunes® is forecasted to continue to grow.

The following activity illustrates how spreadsheets can be used to create a bar graph to analyze the frequency of popular iTunes® downloaded.

Instructions:

1. Create a NEW spreadsheet.

    Note: Unless otherwise stated, the font should be set to Arial, the font size to 10 point.
2. Type the data as shown.
3. Change the font size in cell A1 to 16 point and bold the cell.
4. Format the width of column A to 36.0 and left align.
5. Format the width of column B to 14.0 and center align.
6. Bold row 3.

NEW SKILL ▶ 7. Create a column chart as follows:

   a. Select cells A3 – B13.
   b. Using the Chart Wizard, select Column for the Chart type and Clustered Column for the Chart sub-type.
   c. Set the chart to Series in Columns.
   d. Enter the chart title as "MOST POPULAR iTUNES DOWNLOADED," the title for category (X) axis as "SONG, ARTIST" and the title for value (Y) axis as "FREQUENCY."
   e. Display the legend to the right of the chart.
   f. Show no data labels.
   g. Save the chart as a new sheet. Name the new sheet iTUNES CHART.

8. Format the style and colors of the chart as follows:

   a. Change the background color of the Chart Area to turquoise.
   b. Change the background color of the Plot Area to yellow.
   c. Change the colors of the bars to purple.
   d. Format the chart title and axis titles to font size 12 point and bold.
   e. Change the text alignment of the song titles to 90 degrees.
   f. Change the major unit of the frequency numbers to 2000 and the minor unit to 500.

9. When formatted, your chart should look similar to the one provided in Figure 1-46.

10. Insert a header for both the spreadsheet and the chart that shows:

    a. Left Section   Activity 46-Student Name

    b. Center Section   iTUNES

    c. Right Section   Current Date

11. Insert a footer for both the chart and spreadsheet that shows:

    a. Center Section   PAGE number

12. Carefully proofread your work for accuracy.

13. Save the spreadsheet as iTUNES.

14. Analyze the changes made to the data in the spreadsheet.

15. Print Preview and adjust the Page Setup so that the spreadsheet and the chart each fit on one page. Set the page orientation to landscape for the chart.

16. Print a copy of the spreadsheet and chart if required by your instructor.

	A	B
1	MOST POPULAR iTUNES DOWNLOADED	
2		
3	SONG, ARTIST	FREQUENCY
4	Hung Up, Madonna	23,548
5	Run It!, Chris Brown	20,874
6	My Humps, Black Eyed Peas	17,311
7	Photograph, Nickelback	15,143
8	Stickwitu, The Pussycat Dolls	14,924
9	Laffy Taffy, D4L	13,882
10	Dance, Dance, Fall Out Boy	13,233
11	Gold Digger, Kanye West	12,716
12	Sugar, We're Going Down, Fall Out Boy	11,533
13	There It Go!, Juelz Santana	10,135

Figure 1-46

Figure 1-46: Bar chart titled "MOST POPULAR iTUNES DOWNLOADED" showing FREQUENCY on the y-axis versus SONG, ARTIST on the x-axis.