Unit 6: Working with Charts & Graphs

Snowiest Cities

Creating a Bar Chart

Lesson Overview

Spring break is just around the corner. While most people like to head to a warm climate, you prefer the cold. Skiing is a must on the list of things to do during your break. You research the snowiest cities in the United States to ensure that your chosen destination will have snow on the ground once you arrive.
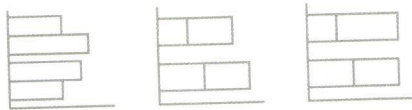
In this lesson, you will create a bar chart using the data from your snowiest cities research.
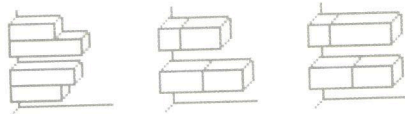
Tools & Terms You'll Use

Review the following tools and terms that you will practice in this lesson, as you may be required to take a written assessment test after completing this unit.
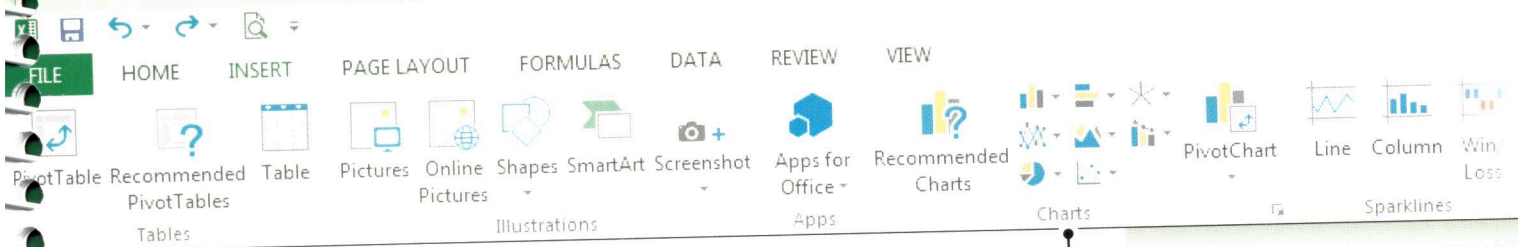
2-D Bar

3-D Bar
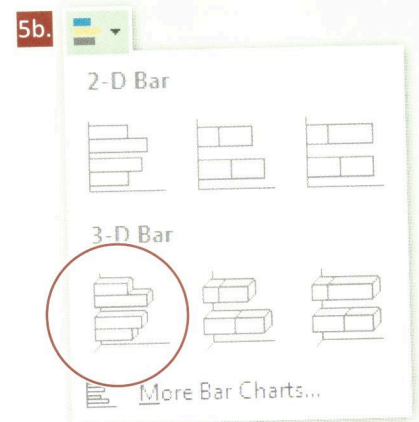
More Bar Charts...

Bar Chart:
Use this icon to create a chart to visually compare values across multiple categories when the chart shows duration or the category text is long.
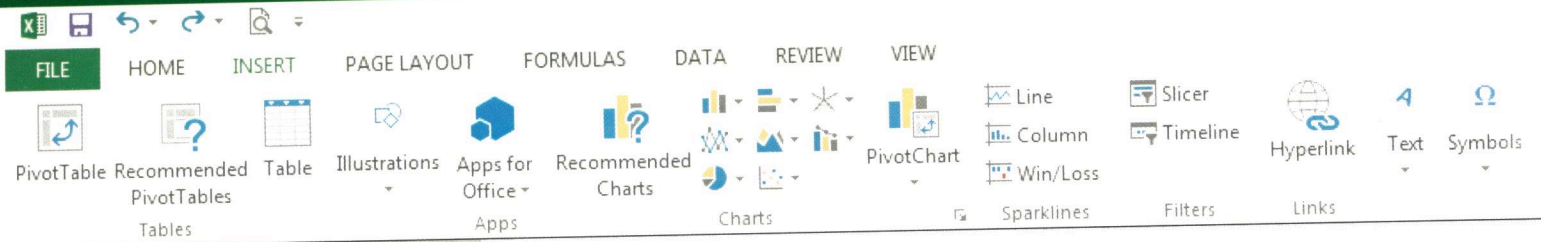
Creating a Bar Chart

Instructions

1. Using Microsoft Excel 2013, create a new Blank workbook.

2. Save the file as *6.4 Snowiest Cities* in your **My Excel Projects** folder.

3. Key the data as shown in *6.4 Source Doc. A*.

4. Make the following formatting changes:

   a. Resize the column widths so that all data displays properly

   b. Right align cells B3 and C3

5. From the **INSERT** tab, **Charts** group, do the following:

   a. Select cells A3 through A13 and C3 through C13 simultaneously

      ⊖ *Note: To do this, select cells A3 through A13, then hold down <CTRL> and select cells C3 through C13.*

   b. Choose the **3-D Clustered Bar**

   c. Position the Chart under the data

   d. Make sure the chart is big enough to show all data

   e. Change the Chart Title to [Snowiest US Cities]

   f. Add the Primary Horizontal Axis Title [Snowfall Totals]

   g. Add the Primary Vertical Axis Title [City/State]

   h. Change the font size of the Axis Titles to 14

   i. Change the font size of the Chart Title to 18

   j. Change the background color of the Chart Area to yellow

   k. Rename Sheet 1 [Bar Graph]

   l. Copy cells A1 through C13 and paste into a new sheet

m. Rename Sheet 2 [Pie Chart]

n. Insert a 3-D Pie Chart using the data in cells A3 through A13 and C3 through C13

o. Change the Chart Title to [Snowiest US Cities]

p. Move the Legend to the Right

6. Proofread your work for accuracy and format, then resave the file.

7. Select all cells containing data and charts, then Print Preview your worksheets.

8. Your worksheets should look similar to *6.4 Source Doc. B, Sheets 1 and 2.*

9. Print a copy of the entire workbook if required.

6.4 Source Doc. A

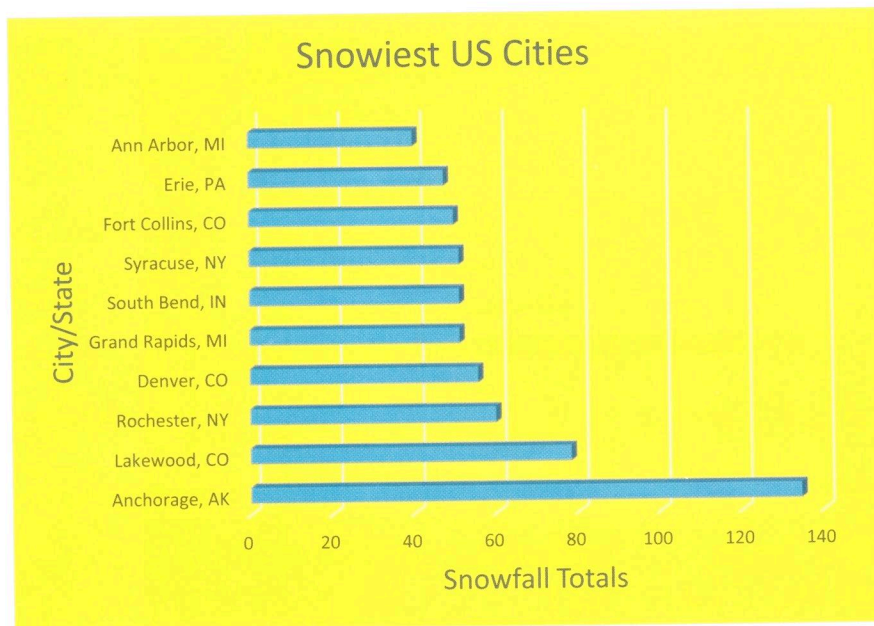|	A	B	C
1	Cities with Most Snowfall 2011-2012		
2			
3	City, State	Population	Snowfall Totals
4	Anchorage, AK	275043	134.5
5	Lakewood, CO	140671	78.2
6	Rochester, NY	211091	59.9
7	Denver, CO	557917	55.6
8	Grand Rapids, MI	193780	51.2
9	South Bend, IN	105262	51.2
10	Syracuse, NY	141683	51.2
11	Fort Collins, CO	128026	49.9
12	Erie, PA	102612	47.6
13	Ann Arbor, MI	113271	40.1

Source: goldensnowglobe.com

6.4 Source Doc. B, Sheet 1

Cities with Most Snowfall 2011-2012

City, State	Population	Snowfall Totals
Anchorage, AK	275043	134.5
Lakewood, CO	140671	78.2
Rochester, NY	211091	59.9
Denver, CO	557917	55.6
Grand Rapids, MI	193780	51.2
South Bend, IN	105262	51.2
Syracuse, NY	141683	51.2
Fort Collins, CO	128026	49.9
Erie, PA	102612	47.6
Ann Arbor, MI	113271	40.1

Snowiest US Cities

City/State (vertical axis):
Ann Arbor, MI
Erie, PA
Fort Collins, CO
Syracuse, NY
South Bend, IN
Grand Rapids, MI
Denver, CO
Rochester, NY
Lakewood, CO
Anchorage, AK

Snowfall Totals (horizontal axis): 0 20 40 60 80 100 120 140

6.4 Source Doc. B, Sheet 2

Cities with Most Snowfall 2011-2012

City, State	Population	Snowfall Totals
Anchorage, AK	275043	134.5
Lakewood, CO	140671	78.2
Rochester, NY	211091	59.9
Denver, CO	557917	55.6
Grand Rapids, MI	193780	51.2
South Bend, IN	105262	51.2
Syracuse, NY	141683	51.2
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Snowiest US Cities

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- Lakewood, CO
- Rochester, NY
- Denver, CO
- Grand Rapids, MI
- South Bend, IN
- Syracuse, NY
- Fort Collins, CO
- Erie, PA
- Ann Arbor, MI