Charts: Test your Skills

1. Creating charts is pretty straightforward but it's important we know the terminology Excel uses. What is the **Chart Area**?

   1 / 1 point

   ○ The chart area is the part of the chart that displays the data visualization.

   ○ A worksheet in the workbook that only

     contains one chart.

   ⦿ The chart area is the entire chart with all of its elements.

   > ⊘ **Correct**
   > Yes, that's right. The chart area is the whole canvas that the chart appears on.

2. Creating charts is pretty straightforward but it's important we know the terminology Excel uses. What is the **Plot Area**?

   1 / 1 point

   ○ The plot area refers to the values from cells on your worksheet.

   ⦿ The plot area is the part of the chart that displays the data visualization. It is located in the area framed by the y and x axis.

   ○ The plot area contains all the information about the data source underneath the horizontal axis.

   > ⊘ **Correct**
   > Yes, that's spot on. Well done.

3. Creating charts is pretty straightforward but it's important we know the terminology Excel uses. What is meant by the word **Legend**?

   1 / 1 point

   ⦿ The legend decodes the data labels and adds explanation to the chart.

   ○ This is not a valid term relating to Charts.

   ○ The legend is the explanation next to each of the axis.

   > ⊘ **Correct**
   > Yes, that's correct. The legend can be displayed to the left, right, underneath or above the plot area.

4. When you want to create a chart, what do you need to observe?

   0.7 / 1 point

   Multiple answers are possible, partial credit will be awarded.

   ☐ Select any headings in rows and/or columns.

   ☑ Ensure that your selection doesn't contain any empty rows or columns.

   > ⊘ **Correct**
   > This is very important. If you accidentally include empty rows or columns in your selection, Excel will try to create a new category and it will mess with your chart.

   ☑ Carefully select all the data you want to include in the chart.

   > ⊘ **Correct**
   > Yes, that's correct.

   > You didn't select all the correct answers

5. Download the workbook below. It contains a slightly altered and abbreviated version of the FBI Crime Statistics, 1994-2013. You will need to work with it in order to answer the next questions in this assignment.

1 / 1 point

📎 **W06-workbook**
XLSX File

You have been given the task to provide some visual summaries to support a presentation on trends and volume of certain types of crime in the United States. Take a moment to familiarize yourself with the workbook. What is the title of **Table 1**?
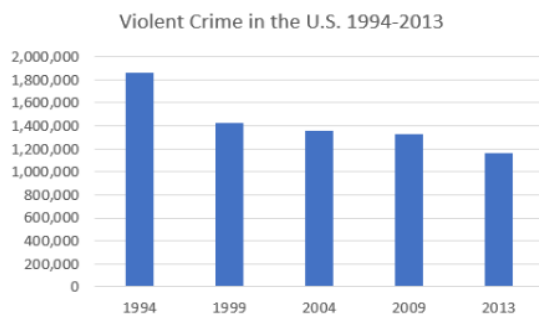
◉ Crime in the United States by Volume, 1994-2013

○ Crime in the USA - FBI Data

○ Crime in the United States

⊘ **Correct**
Yes, great work. This is the full title of the table. When you provide the charts to your manager later on, it is important that you can cite the correct reference for your data set.

6. Take a look at the screenshot below and then head over to Excel to your W06-workbook file. Which cell ranges were selected to create this chart?
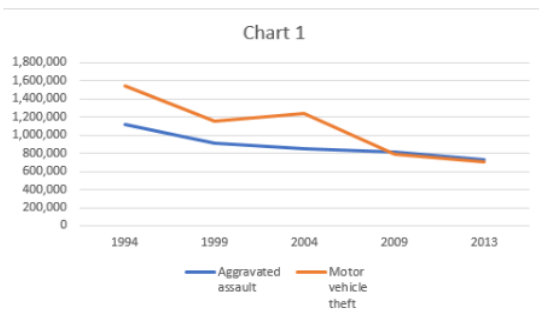
1 / 1 point

Violent Crime in the U.S. 1994-2013

○ B5:B9

◉ A4:B9

○ A5:B9

○ A1:B9

⊘ **Correct**
Correct, this is the range that produced this chart.

7. Take a look at the screenshot below. What type of chart is this?

1 / 1 point

Chart 1

If you are unsure, go over to Excel and have a play with the different chart types to figure out which one we are seeing here.
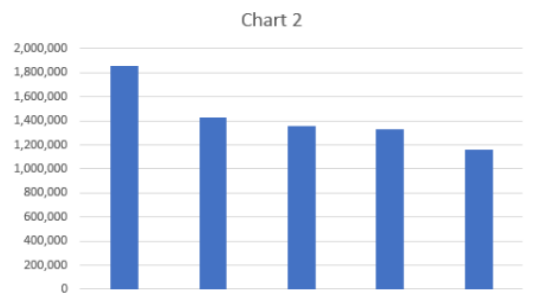
○ A trendline chart.

◉ A line chart.

○ A clustered bar chart.

○ A scatter chart.

⊘ **Correct**
Yes, well done. You have worked this out correctly. Fantastic.

8. Take a look at the chart below. What's missing from this chart to make it a useful visualization for a presentation on Violent Crime rates between 1994-2013?

Multiple answers are possible, partial credit will be awarded.

☑ There is no legend to explain the value category.

⊘ **Correct**

☑ The chart title is meaningless.

⊘ **Correct**

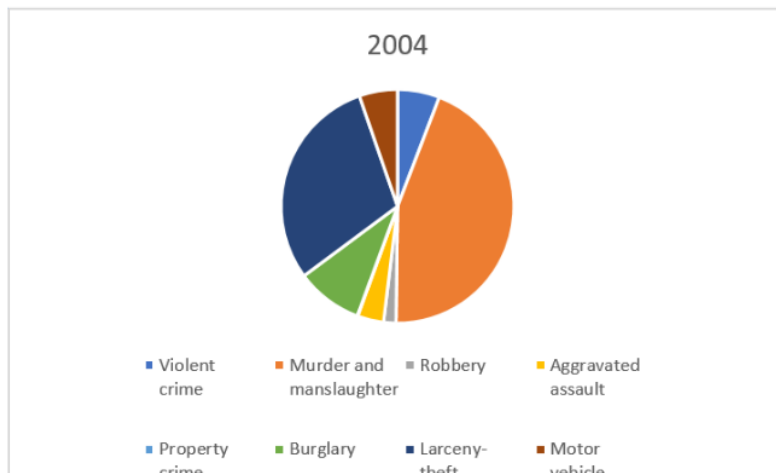☑ The y-axis information is missing.

⊗ **This should not be selected**

☐ There are no gridlines.
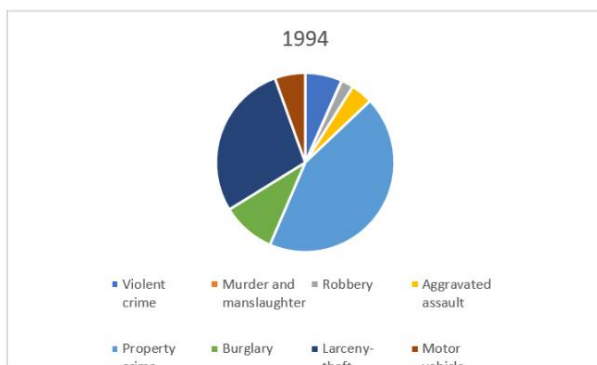
☐ The x-axis information is missing.

9. Using the data in the W06-workbook, create a 2-D Pie Chart for 2004, including labels. Which of the following best represents what you have created?

○ This:

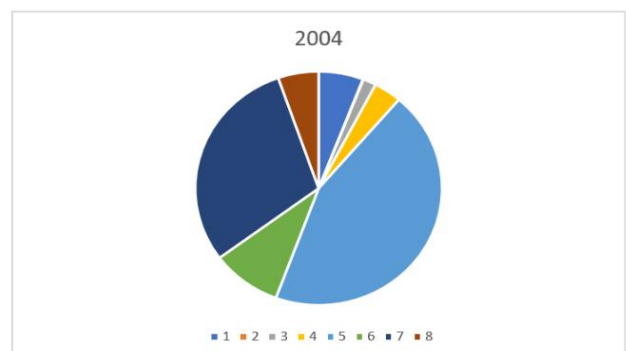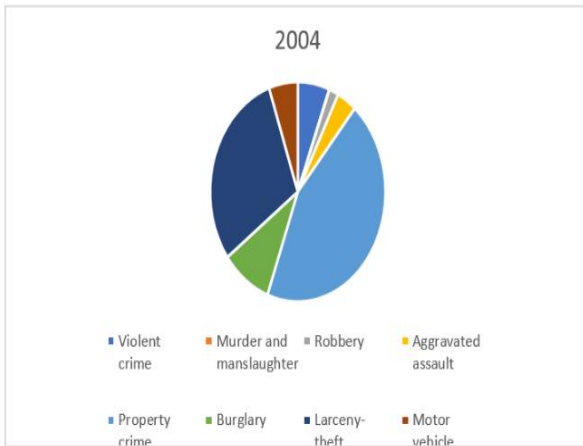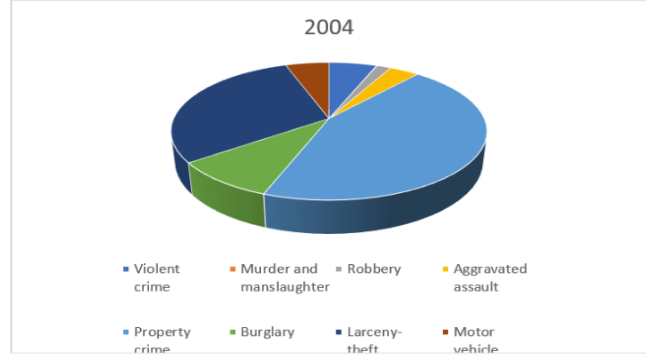
○ This:

○ This:

○ This:

2004

■ Violent crime ■ Murder and manslaughter ■ Robbery ■ Aggravated assault

■ Property crime ■ Burglary ■ Larceny-theft ■ Motor vehicle

○ This:

2004

■ Violent crime ■ Murder and manslaughter ■ Robbery ■ Aggravated assault

■ Property crime ■ Burglary ■ Larceny-theft ■ Motor vehicle
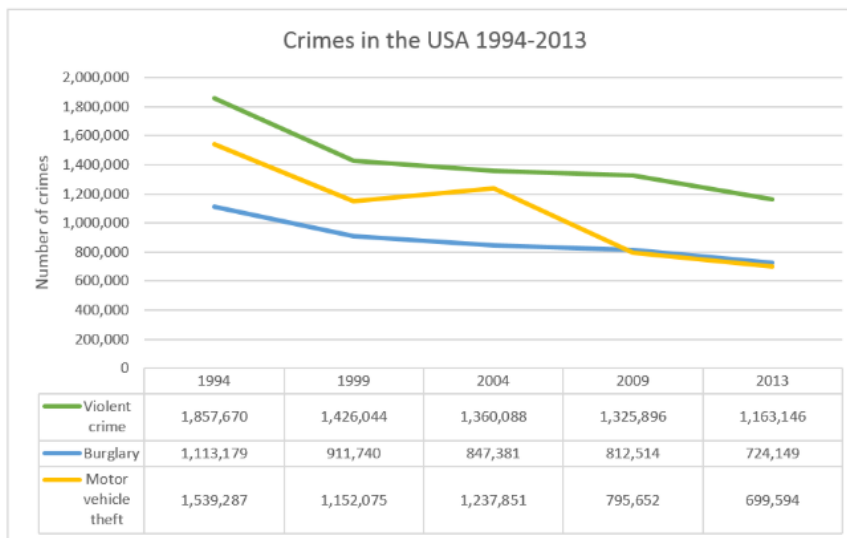
⊘ **Correct**
Correct! You have created a 2-D pie chart for the 2004 data.

10. Create a **Line Chart** for **Violent crime**, **Burglary** and **Motor vehicle theft**. Use the Quick Layout to show the data table below the chart (hint: hover over the Quick Layout options to find which one includes a data table). Change the colors so that Violent crime is green, Burglary is blue and Motor vehicle theft is yellow. Change the chart title to **Crime in the USA 1994-2013**. Change the vertical axis label to be **Number of crimes**.
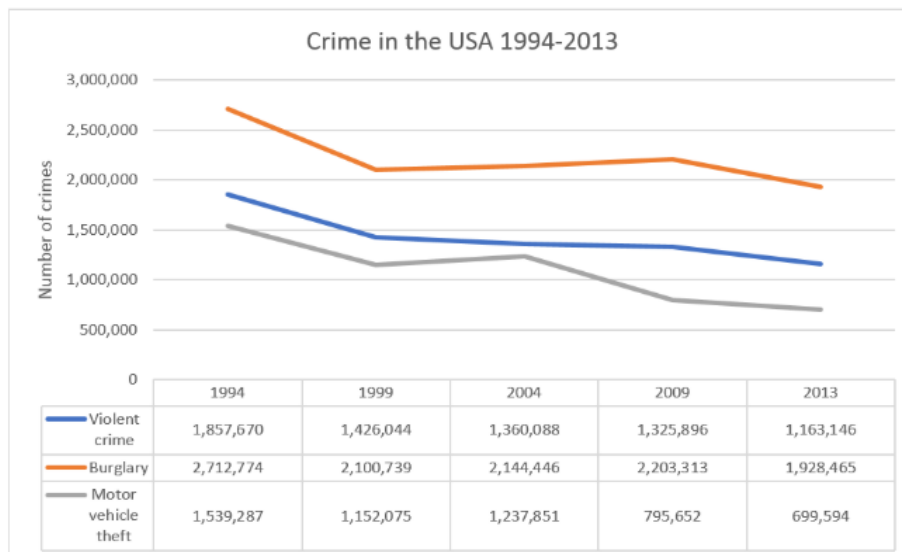
1 point

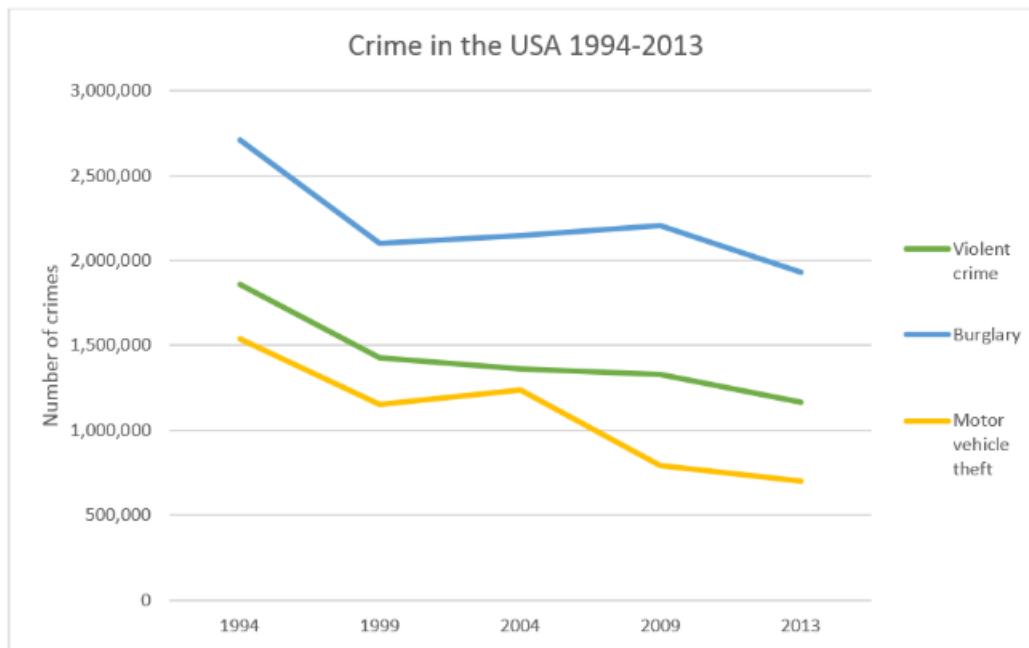Which of the following does your chart most closely resemble?
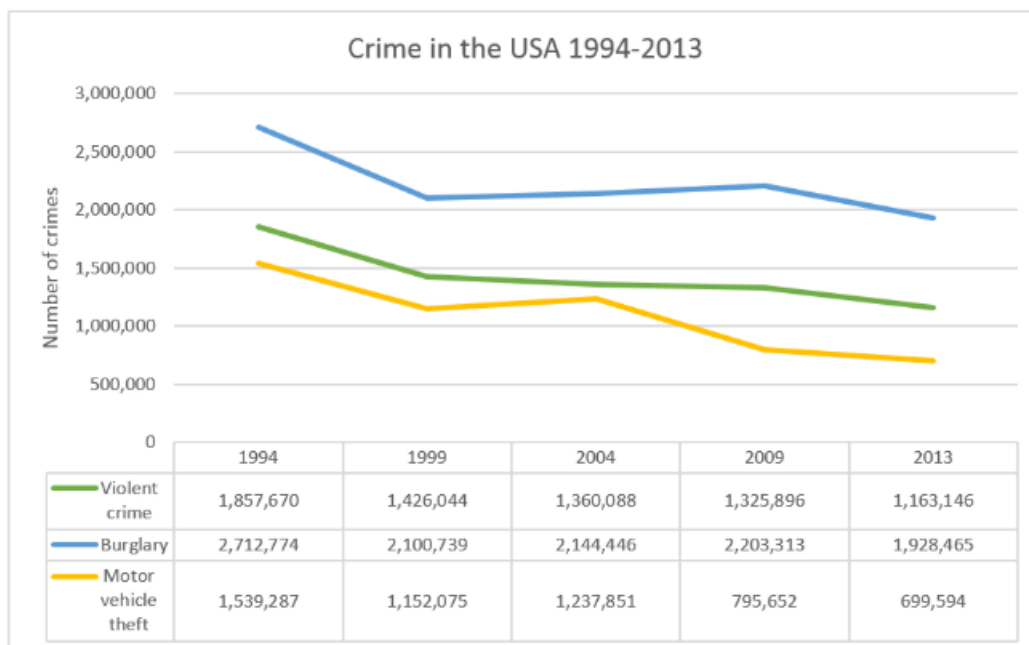
○ This:

Crimes in the USA 1994-2013

	1994	1999	2004	2009	2013
Violent crime	1,857,670	1,426,044	1,360,088	1,325,896	1,163,146
Burglary	1,113,179	911,740	847,381	812,514	724,149
Motor vehicle theft	1,539,287	1,152,075	1,237,851	795,652	699,594

● This:

Crime in the USA 1994-2013

	1994	1999	2004	2009	2013
Violent crime	1,857,670	1,426,044	1,360,088	1,325,896	1,163,146
Burglary	2,712,774	2,100,739	2,144,446	2,203,313	1,928,465
Motor vehicle theft	1,539,287	1,152,075	1,237,851	795,652	699,594

This:

This:

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