



✓ **Congratulations! You passed!**

TO PASS 80% or higher

Keep Learning

GRADE
80%

Charts: Test your skills

LATEST SUBMISSION GRADE

80%

1. Creating charts is pretty straightforward but it's important we know the terminology Excel uses. What is the **Chart Area**? 0 / 1 point

- ☐ The chart area is the entire chart with all of its elements.
- ☒ The chart area is the part of the chart that displays the data visualization.
- ☐ A worksheet in the workbook that only contains one chart.



Incorrect

No, that chart element is referred to with a different term. If you are unsure, you can go to Excel and hover the mouse of the various parts of the chart. The labels will appear as a mouse-over.

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



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 is the explanation next to each of the axis.
- ☐ This is not a valid term relating to Charts.
- ☒ The legend decodes the data labels and adds explanation to the chart.



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? 1 / 1 point

Multiple answers are possible, partial credit will be awarded.

- ☒ Select any headings in rows and/or columns.



Correct

Yes, always select the row and column labels to help Excel interpret the data and create the correct categories.

- ☒ 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.

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

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**?

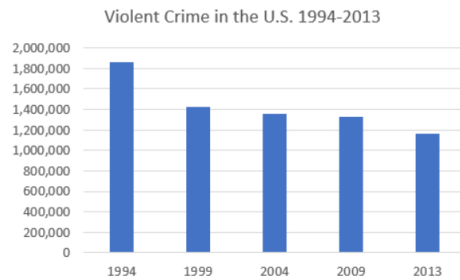
- ☐ Crime in the USA - FBI Data
- ☐ Crime in the United States
- ☒ Crime in the United States by Volume, 1994-2013

✓ **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



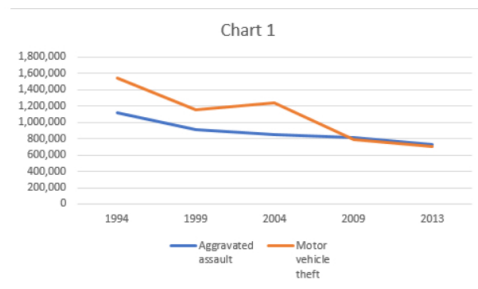
- ☒ A4:B9
- ☐ B5:B9
- ☐ A5:B9
- ☐ A1:B9

✓ **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



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.

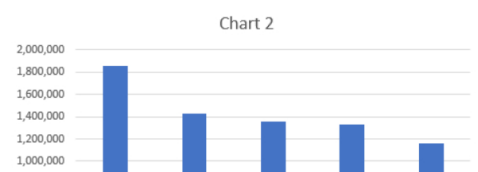
- ☐ A scatter chart.
- ☐ A trendline chart.
- ☐ A clustered bar chart.
- ☒ A line chart.

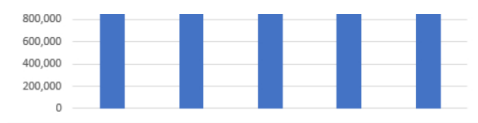
✓ **Correct**

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?

1 / 1 point





Multiple answers are possible, partial credit will be awarded.

☒ The x-axis information is missing.

✓ Correct

☐ There are no gridlines.

☒ The chart title is meaningless.

✓ Correct

☒ There is no legend to explain the value category.

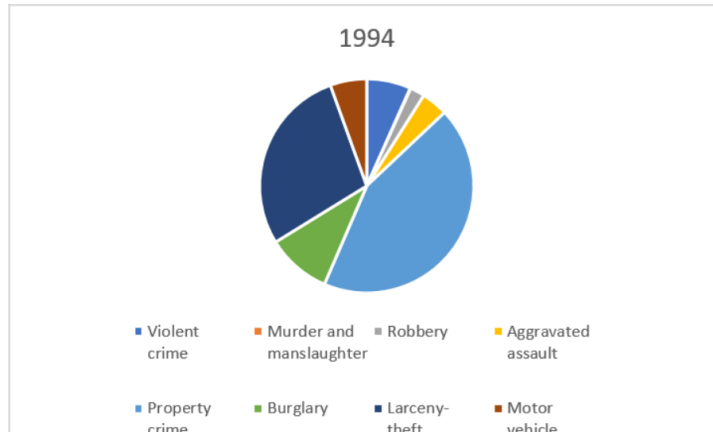
✓ Correct

☐ The y-axis information is missing.

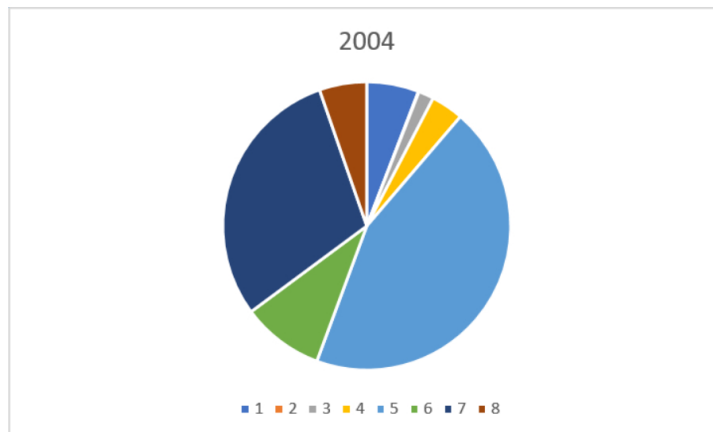
9. Using the data in the W06-workbook, create a 2-D Pie Chart for 2004. Which of the following best represents what you have created?

1 / 1 point

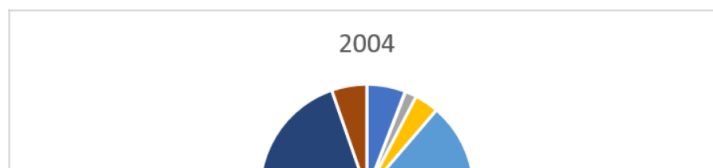
☐ This:



☐ This:

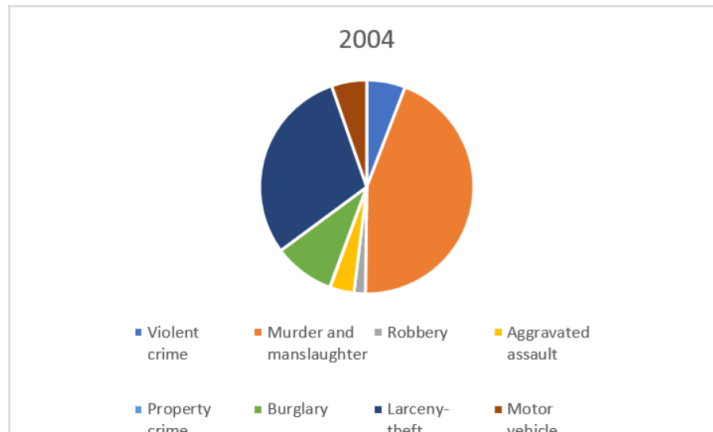


☒ This:

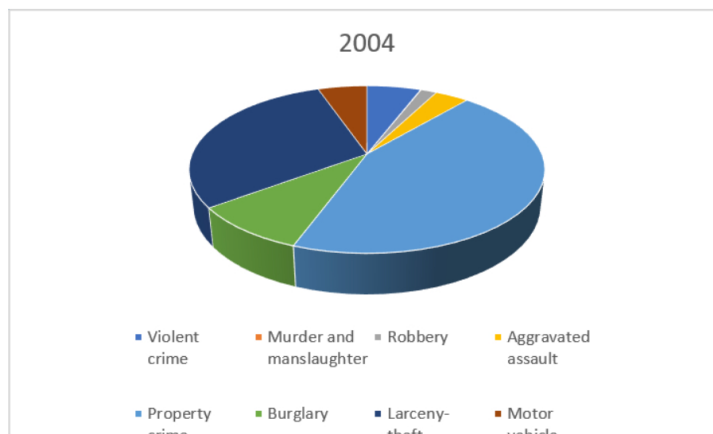




☐ This:



☐ This:



✓ Correct

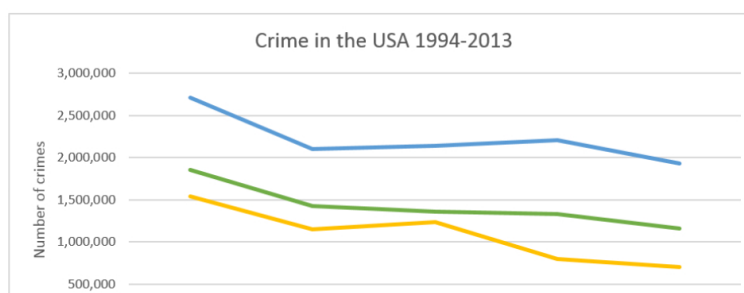
Correct! You have created a 2-D pie chart for the 2004 data.

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**.

0 / 1 point

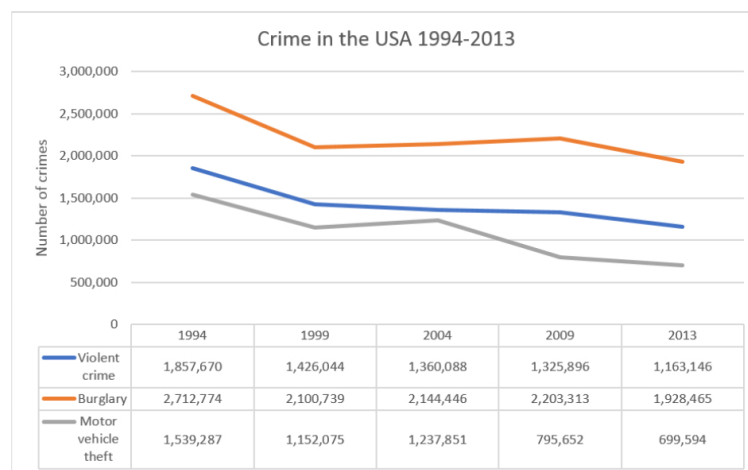
Which of the following does your chart most closely resemble?

☐ This:



0	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

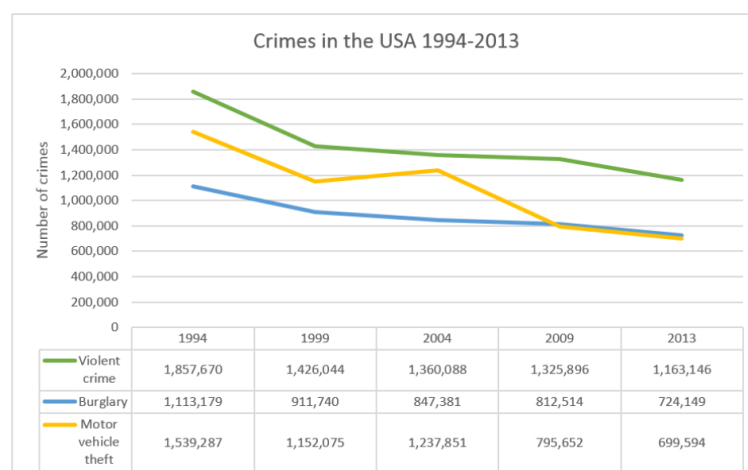
☒ This:



☐ This:



☐ This:



Incorrect

You are close but the colors do not look quite right.

