Homework assignment 05

Use black text (if possible) for everything you include in this document. Keep both your answers and the original questions. Save this document in PDF format and submit it on Canvas. Include your last name, the course number and the module number in the name of your file.

For every assignment, make sure that your graphs conform to the following requirements:

* Do not display unnecessary decimal places on your graph axes.
* Include units of measurement (when appropriate) on graph axis labels
* Avoid the use of color in boxplots and scatterplots. Fill boxes and points with white or transparent colors.
* Include ticks on both axes
* Replace the default title provided by SPSS with one that includes your name and the date
  + For example, “This scatterplot was produced by Steve Simon on 2023-09-19”

You do not need to show any dialog boxes or program code for this assignment.

1. Show a documentation header. The documentation header is a description of who wrote the program, when it was written, what the purpose of the program is (briefly), and what restrictions (if any) that you may place on the program. For SPSS, you can just type the documentation as free format text. For other programs, you might use the comment feature (such as /\* and \*/ in SAS).

2. Download the file data-05-fev.csv and import it into SPSS. Show the first ten rows of data.

3. Draw a graph that shows the percentage (not the count) of smokers and non-smokers between male and female volunteers. Show the graph below.

4. Interpret this graph.

5. Draw a graph that shows how smoking status is related to age. Use a stacked bar chart and a boxplot. Hide any row numbers listed next to the outliers. Show the two graphs below.

6. Interpret these graphs. One interpretation for both graphs is fine.

7. Draw a graph that shows how smoking status is related to fev. Use a boxplot. Hide any row numbers listed next to the outliers. Show the graph below.

8. Interpret this graph.

9. Draw a graph that shows how age is related to fev. Use a scatterplot.

10. Interpret this graph.