Answers to additional health exercises

Chapter 7 Graphs

Q1 Generate a **histogram** to explore the distribution of scores on the Epworth Sleepiness Scale (ess).

![Histogram of Epworth Sleepiness Scale scores](image-url)

- **Mean** = 6.58
- **Std. Dev.** = 3.666
- **N** = 255
Q2. Generate a **bar graph** to compare scores on the Sleepiness and Associated Sensations Scale (*totSAS*) across three age groups (*agegp3*) for males and females (*gender*).
Q3. Generate a scatterplot to explore the relationship between scores on the Epworth Sleepiness Scale (ess) and the Sleepiness and Associated Sensations Scale (totSAS). Ask for different markers for males and females (gender).
Q4. Generate a boxplot to explore the distribution of scores on the Sleepiness and Associated Sensations Scale ($totSAS$) for people who report that the do/ do not have a problem with their sleep ($problem$).
Q5. Generate a **line graph** to compare scores on the Sleepiness and Associated Sensations Scale (*totSAS*) across the different age groups (use the `agegp3` variable) for males and females (gender).