Week 3 Descriptive statistics

hr130

The recorded heart rate (measured in beats per minute) of 130 participants in a study.

1. Plot a histogram of the data.
2. Compute the sample mean and sample variance of the heart rate.

hrstudy

Data recorded during a study of various factors influencing heart rates. The study has 100 participants, with six variables recorded for each participant.

1. Assign appropriate levels of measurement to each variable.
2. Draw a pie chart to illustrate the proportion of participants in each diet category.
3. Draw a histogram to illustrate the age distribution of the participants.
4. Draw a bar chart to illustrate the relative proportion of participants in each diet.
5. Draw a clustered bar chart to group the participants according to diet and gender.
6. Draw a box-plot of the age distribution in each diet category and make a note of any outliers.
7. Suggest a way of dealing with the outlying points.
8. Speculate on the sampling method used to obtain the data.