

Practice quiz question 1

Answer each question in a clearly annotated script.

To receive feedback, submit your script via the link on Moodle, save your script as “your_name_practice_2” (e.g. smith_practice_2).

Make sure your name, student ID and date is at the top of your quiz script.

In questions where you are asked to analyse data, you should follow the analysis pathways set out in the lectures, e.g.:

1. Write clear hypotheses
2. Explore descriptive statistics – means, standard deviation, distribution etc
3. Create appropriate plots to visualise/explore data
4. Decide on test(s) to be done (see flow chart)
5. Examine assumptions of tests: normality, variances, independence
6. Carry out tests
7. Report your results: results statements / plots

Section 1 [10 marks]

The dataset *wildebeest2.csv* is available on Moodle. This dataset contains the results of a study looking at the different horn lengths of male and female wildebeest. The dataset contains four variables,

park – location of national park

sex – male or female

horn – horn length recorded in centimeters

feeding – time spent feeding over survey period (minutes)

Investigate if there is a difference in horn length between sexes of wildebeest.

Marking guidance

1 mark for the hypothesis; 2 marks for preliminary data exploration and visualisation, 2 marks for testing the assumptions and reporting, 2 marks for selection and carrying out correct test, 3 marks reporting your results and presenting the data.