IQM3003

LEVEL 3 · CONTROLLED ASSESSMENT

INTO QUALIFICATIONS

Mathematics and Data Handling

Component 2: Data-handling presentation

Candidate task brief

Duration
5–10 minutes for the whole group, including questions

Total marks
100

Assessment window
_____

Assessment set
Set S of 2026

Audience
Students

Release timing
at coursework release

Assessment overview

Group size	3–5 students
Assessed event	5–10 minutes for the whole group, including questions
Marks	100 per student
AI use	Level 2 · AI planning

Your task

Choosing a campus travel improvement

Riverside College is considering either a bus-service trial or improved walking and cycling facilities. The supplied dataset contains 48 constructed journey records for this assessment. In the scenario, volunteers at the North and South campuses reported one morning journey during the same teaching week. The college has 1,200 students, but the dataset is not a random sample of them. Each row represents one different volunteer. There is no before-and-after intervention evidence. The college wants a justified recommendation about what to investigate or trial next, supported by the data.

Compare journey experience across modes or campuses and investigate a relationship between numerical variables. Your group analysis pack must include an evaluation of the volunteer sample and a justified improved sampling method; measures of centre or location and spread; and identification and investigation of at least one outlier. Select and apply statistical techniques that are appropriate to the question and data. The techniques below are permitted choices from the A2 outcome range; they are not all required: a box plot; a cumulative-frequency curve; a histogram using frequency density where class widths differ; a scatter diagram with a line of best fit; a Pearson or Spearman correlation coefficient; and a least-squares regression line. Interpret the results from the methods you use in context, explain missing values and unusual observations, and conclude with a justified recommendation, its limitations and the additional evidence needed before a spending decision. The task samples LO32–LO35 and permits technique choices from LO36–LO41; it does not require evidence for every outcome.

Files issued

- Excel dataset: IQM3003_2026_Sample_Assessment_2_Dataset.xlsx
- Data dictionary: IQM3003_A2_2026-S_Data Dictionary.pdf
- Coursework Cover Sheet
- Candidate marking criteria

What your group must do

- Use the supplied dataset and complete the required task elements. Choose the statistical techniques that best address the question and explain why. The listed techniques are options; you are not required to use every one.
- Explain why your techniques are appropriate and show the statistical results, tables, graphs or diagrams used.
- Interpret the results in context, consider limitations and alternative explanations, and reach a balanced conclusion.
- Plan the group presentation and assessor questions to fit within the 5–10-minute whole-group event. Share the explanation and analysis as evenly as possible. Every candidate will be asked at least one direct question and may be questioned about any part of the group analysis.

Items to submit

- Submit one electronic group analysis pack and one completed Coursework Cover Sheet before the stated deadline. The electronic pack is not marked separately; it allows the examiner to prepare questions.

Key dates

Coursework release	_____ (21 days before presentation)
Electronic submission deadline	_____ (7 days before presentation)
Presentation	_____ (centre to schedule)

Permitted AI use

- You may use AI to brainstorm questions, develop an outline, refine structure or explore ideas.
- You must not use AI to generate the analysis, interpretations, conclusions, recommendations, final slides or speech presented as your own work.
- You remain responsible for accuracy, originality and being able to explain every method and conclusion independently. Acknowledge any permitted AI use as instructed by your centre.