IQM3003 A3 Teacher marking exercise

Mathematics and Data Handling Component 3 Paper 2 examination synthetic response profiles

The selected synthetic extracts below form an unmarked exercise. Apply the supplied assessment criteria, record evidence and propose marks or bands before consulting the separate teacher reference.

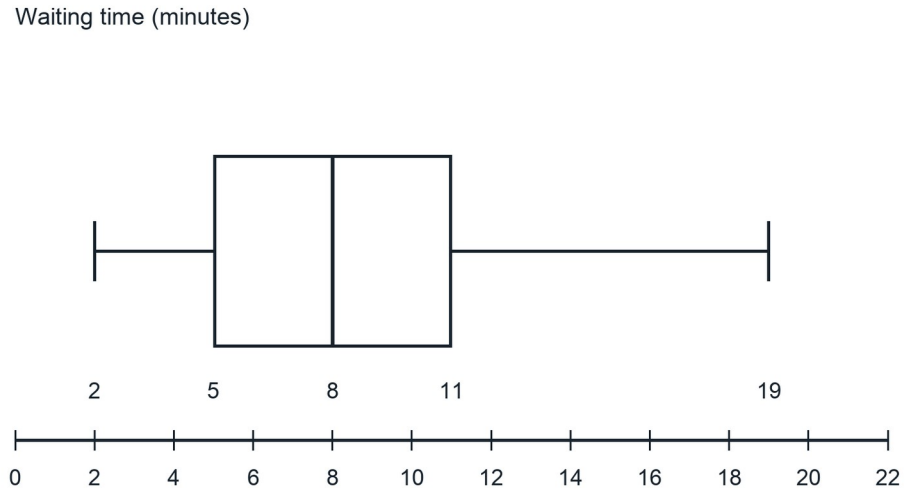
Source assessment: IQM3003 Mathematics and Data Handling, Component 3 Paper 2, Sample 2026 (assessment set 2026-S). Bound to the current source files IQM3003_A3_P2_2026-S_Candidate Question Paper.pdf and IQM3003_A3_P2_2026-S_Candidate Answer Booklet.pdf; marking authority is IQM3003_A3_P2_2026-S_Staff Mark Scheme.pdf. These are synthetic scripts for internal teaching and calibration.

Curated fictional excerpts for unmarked staff practice; no grade or answer key is embedded in the exercise section.

Unmarked calibration extracts

For each extract, annotate the mark-scheme evidence and propose a mark. Do not treat these fictional responses as evidence of a real learner.

EXTRACT A — S2, Q4(a): “The scale is labelled in minutes and the quartiles are marked correctly; my upper whisker ends at 19 minutes.”



Middle-profile Q4(a) response diagram for Extract A.

Teacher marks: _____ / 3 Evidence / feedback:

_____

EXTRACT B — S2, Q8(b): “Σfm² = 590;”

$\sigma = \sqrt{590/30 - (122/30)^2} = 1.9 \text{ kg}$

Teacher marks: _____ / 3 Evidence / feedback:

_____

EXTRACT C — S3, Q14(a): “H_0:p=0.10; H_1:p<0.10.”

Teacher marks: _____ / 2 Evidence / feedback:

_____

EXTRACT D — S3, Q23(a):

$$\frac{x^2-9}{x^2+x-6} = \frac{(x-3)(x+3)}{(x+3)(x-2)} = \frac{x-3}{x-2}$$

The response then states: “I exclude x=−3.”

Teacher marks: _____ / 4 Evidence / feedback:

_____