

Learner workbook: Statistical comparisons

Objective: Compare distributions using context, a typical value and spread.

Calculator condition: Non-calculator core; calculator optional only for checking where labelled.

L048 Statistical comparisons



Objective: Compare distributions using context, a typical value and spread.

Connect & Check

- State the objective and timeline. Retrieve averages and spread or a prerequisite. Diagnose a common error before modelling.
- Write one starting question you want answered today.

Choose your route

Route A: Visual Use a diagram, graph, table or annotation first.	Route B: Method Use a worked method, formula or calculation chain first.	Route C: Explain Start with words: what is known, what is changing, and why.
--	--	--

Share

- Pairs compare methods or predict a result for statistical comparisons. Ask for a reason, not only an answer.

Present

- Model a comparison supported by two statistics; critique an unsupported claim

Apply: supported to independent

Recall: Retrieve the key fact or method needed for statistical comparisons.

Working: _____

Check/explanation: _____

Core practice: Class A has median 14 and IQR 3; class B median 16 and IQR 9. Compare typical score and consistency.

Working: _____

Check/explanation: _____

Reasoning: Two groups share mean 20. One has range 2 and the other 30. What can and cannot be concluded?

Working: _____

Check/explanation: _____

Exam-style: Solve an exam-style problem involving statistical comparisons. Show working, include a check and interpret your answer.

Working: _____

Check/explanation: _____

Recall & Review

- Revisit the objective. Learners solve a fresh item without prompts, explain a check, correct one error and record the next practice.

WWW: _____ EBI: _____

Recall & Review: feedback and extension integration

Lesson L048: Statistical comparisons

Objective: Compare distributions using context, a typical value and spread.

Timing for a 60-minute lesson

0-7 Connect & Check; 7-14 Share; 14-25 Present/model; 25-44 Apply route choice/practice; 44-52 independent exam-style check; 52-60 Recall & Review, WWW/EBI and next step.

Recall & Review evidence

At the end of the lesson, solve a fresh question without prompts, explain one check, correct one error and record the next practice step.

What Went Well (WWW)

I selected an appropriate statistic or representation and supported my comparison or interpretation with specific evidence from the data.

Even Better If (EBI)

I will quote the relevant values or features, compare like with like and explain what the evidence shows without making an unsupported claim.

Integrated stretch and deep challenge

Stretch: Class A has median 14 and IQR 3; class B median 16 and IQR 9. Compare typical score and consistency.

Deep challenge: Two groups share mean 20. One has range 2 and the other 30. What can and cannot be concluded?

My next-step response
