

L079 · GCSE Mathematics 1MA1 · 60 minutes

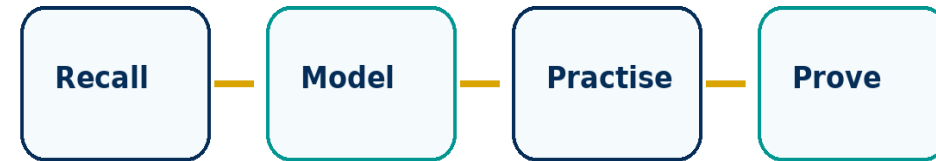
The goal

Compare distributions using suitable statistics and graphical evidence.

Connect & Check

Complete the starter in your workbook. Retrieve the prior skill, then identify one likely error before you use today's method.

L079 Comparing distributions pathway



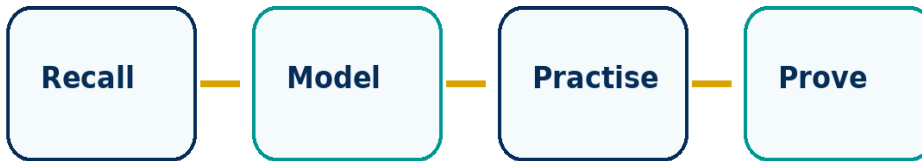
Objective: Compare distributions using suitable statistics and graphical evidence.

Compare your method with a partner. Agree on one reliable step and one check. Be ready to explain your reasoning, not just your answer.

Build the method

Use the worked model to foundation: mean, median and range. Higher: quartiles, interquartile range and box plots. Record the key step and one check that proves the answer.

L079 Comparing distributions pathway



Objective: Compare distributions using suitable statistics and graphical evidence.

Choose your route

Choose your route: A - visual model, B - method first, or C - explain first.
Whichever route you choose, your final answer must prove the lesson objective.

Guided practice

Group A has $Q1=7, Q3=19$;
group B has $Q1=10, Q3=17$.
Compare IQRs.

L079 Comparing distributions pathway

Recall

Model

Practise

Prove

Objective: Compare distributions using suitable statistics and graphical evidence.

Apply

7/11

Independent practice

Can one distribution have both a higher median and a larger IQR than another? Explain the practical interpretation.

Apply

L079 Comparing distributions pathway

Recall

Model

Practise

Prove

Objective: Compare distributions using suitable statistics and graphical evidence.

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Exam-style practice

Solve an exam-style problem involving comparing distributions pathway. Show working, include a check and interpret your answer.

Recall & Review

Complete a fresh question without notes. Check your answer, correct one error if needed, and record the next practice step.

Before next lesson

Correct one error, record one target and complete the flipped learning task.

L079 Recall & Review

Comparing distributions pathway



Fresh evidence: prove the objective

Solve a new question without prompts. Explain one check, then correct one error in your working.

Objective: Compare distributions using suitable statistics and graphical evidence.

Write the next practice step before you leave. It must test the method again, not simply copy today's example.

Feedback language

Use the full phrases before the abbreviations.

What Went Well (WWW)

I read or constructed the graph accurately, used the scale and axes correctly and linked the relevant gradient, intercept, shape or trend to my conclusion.

Identify the mathematical method, representation, reasoning or check that improved.

Even Better If (EBI)

I will label units and scale clearly, show the calculation or graphical evidence I used and check that the interpretation fits the context.

Set one precise next-step action and test it on a fresh question.

Extension route

Choose this route only after the core evidence is secure.

Stretch

Group A has $Q1=7, Q3=19$; group B has $Q1=10, Q3=17$. Compare IQRs.

Deep challenge

Can one distribution have both a higher median and a larger IQR than another? Explain the practical interpretation.

Explain your reasoning clearly enough that another learner could check it.