

L074 · GCSE Mathematics 1MA1 · 60 minutes

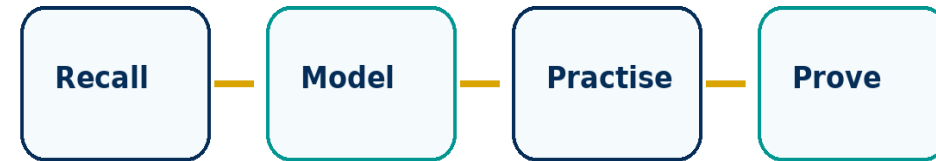
The goal

Recognise dependence and the assumptions behind a probability model.

Connect & Check

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

L074 Dependent events and assumptions



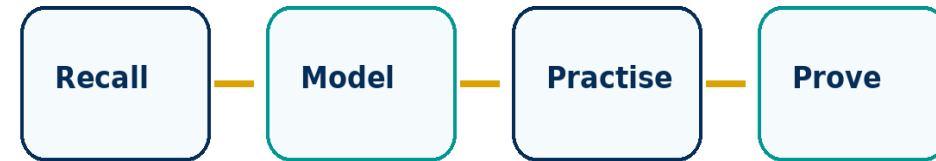
Objective: Recognise dependence and the assumptions behind a probability model.

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: simple experiments and frequency models. Higher: without-replacement trees and conditional probability. Record the key step and one check that proves the answer.

L074 Dependent events and assumptions



Objective: Recognise dependence and the assumptions behind a probability model.

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

A bag holds 5 red and 4 blue.
Find $P(\text{two blue without replacement})$.

Apply

L074 Dependent events and assumptions

Recall

Model

Practise

Prove

Objective: Recognise dependence and the assumptions behind a probability model.

7/11

Independent practice

A bag has 4 red and 1 blue.
Given the first draw was red,
find $P(\text{second red without replacement})$.

Apply

L074 Dependent events and assumptions

Recall

Model

Practise

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8/11

Exam-style practice

Solve an exam-style problem involving dependent events and assumptions. 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.

L074 Recall & Review

Dependent events and assumptions

Fresh evidence: prove the objective

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

Objective: Recognise dependence and the assumptions behind a probability model.

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 represented the outcomes systematically, used the correct probability rule and checked that the probabilities or frequencies were consistent.

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

Even Better If (EBI)

I will show the sample space, branch or set reasoning explicitly, state any dependence or condition and check totals before giving the final probability.

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

A bag holds 5 red and 4 blue. Find $P(\text{two blue without replacement})$.

Deep challenge

A bag has 4 red and 1 blue. Given the first draw was red, find $P(\text{second red without replacement})$.

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