

Learner Assessment: Probability trees and combined events

Objective: Use probability trees and combine event probabilities.

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

L073 Probability trees and combined events

Collect

Represent

Analyse

Conclude

Is the sample fair?
What does the diagram show?
What conclusion is valid?

Objective: Use probability trees and combine event probabilities.

Recall

Retrieve the key fact or method needed for probability trees and combined events.

Core practice

Two independent events have probabilities 0.4 and 0.7. Find $P(\text{both})$ and $P(\text{neither})$.

Working: _____

Check/explanation: _____

Reasoning

Toss a biased coin with $P(H)=0.7$ three times. Find $P(\text{exactly two heads})$.

Working: _____

Check/explanation: _____

Exam-style

Solve an exam-style problem involving probability trees and combined events. Show working, include a check and interpret your answer.

Working: _____

Check/explanation: _____