

Learner Assessment: Area and volume scale factors

Objective: Connect linear scale factors with area and volume change at the appropriate tier.

Calculator condition: Calculator allowed where labelled; non-calculator reasoning remains required.

L070 Area and volume scale factors



balanced operations + independent check

Objective: Connect linear scale factors with area and volume change at the appropriate tier.

Recall

Retrieve the key fact or method needed for area and volume scale factors.

Core practice

Two similar solids have lengths ratio 3:4 and smaller surface area 54 cm^2 . Find larger area.

Working: _____

Check/explanation: _____

Reasoning

Volume ratio of similar solids is 27:64. Find length and area ratios.

Working: _____

Check/explanation: _____

Exam-style

Solve an exam-style problem involving area and volume scale factors. Show working, include a check and interpret your answer.

Working: _____

Check/explanation: _____