

Area, perimeter and volume review

WHAT THIS LESSON TEACHES

Perimeter is the distance all the way around a shape by adding every side once. Area is the space inside counted in squares. Volume is how many cubes fill a solid. Decide each time if the question wants around, inside or cubes.

→ A 5 cm by 3 cm rectangle has a perimeter of $5 + 3 + 5 + 3 = 16$ cm.

→ A 4 by 3 rectangle covers 12 squares so its area is 12 square units.

MODEL THIS ON THE BOARD

EDGING A 5 BY 3 BUILDING SIGN

- 1 The sign is a rectangle 5 cm long and 3 cm wide.
- 2 Perimeter means add every side once: $5 + 3 + 5 + 3$.
- 3 The edging tape needed is 16 cm all the way round.

DISCUSSION STARTER

REFLECT Which feels clearest now — area, perimeter or volume? Which still needs practice?

ANSWER KEY

a) 32 cm

b) 8 cm^2

Q1: 12

Q2: 8

Q3: 16 units

a) Always — That is exactly how perimeter is found.

b) Never — The space inside a flat shape is area; volume fills a solid with cubes.

c) Always — Edging goes all the way around the edge.

d) Always — Multiplying the two sides counts the squares inside.