

Area, perimeter and volume review

WHAT THIS LESSON TEACHES

The perimeter is the total distance all the way around the outside of a flat shape. Add the length of every side to find it, and label the answer in cm.

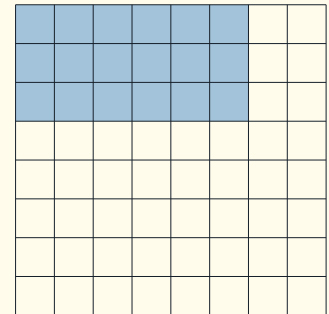
→ A 6 cm by 3 cm rectangle has a perimeter of $6 + 3 + 6 + 3 = 18$ cm.

→ A 7 cm by 3 cm rectangle has a perimeter of $7 + 3 + 7 + 3 = 20$ cm.

MODEL THIS ON THE BOARD

PERIMETER AND AREA OF A 6 CM BY 3 CM RECTANGLE

- ① The shaded rectangle is 6 cm long and 3 cm wide.
- ② Perimeter is the distance around: $6 + 3 + 6 + 3 = 18$ cm.
- ③ Area is the space inside: $6 \times 3 = 18$ cm² (or count the 18 squares).



DISCUSSION STARTER

REFLECT

Which measure feels clearest now — perimeter, area or volume — and which still needs practice?

ANSWER KEY

a) 20 cm

b) 20 cm²

c) 24

Q1: 38 m

a) Always — Perimeter is always the total of all the side lengths added together.

b) Sometimes — It can be cm, but it could also be m or mm depending on the units given.

c) Always — Four sides of 5 cm give $5 + 5 + 5 + 5 = 20$ cm every time.

d) Always — Adding to one pair of sides always increases the total distance around.

EXTENSION SHEET · STRETCH ANSWERS

S1: 56 m

S2: 12 cm

S3: 40 cm

S4: 48 cm

S5: 30 cm

Investigation: Pack the box — open-ended; scan pupils' working for valid solution paths rather than a single answer.