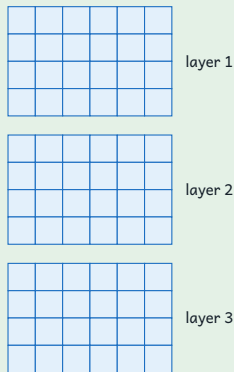


FINDING THE VOLUME OF A CUBOID

- 1 Count the cubes along the length, breadth and height.
- 2 Multiply length $\times$ breadth $\times$ height to get the total number of unit cubes.
- 3 Write the answer with the unit cm^3 .

WARM-UP

Use the unit-cube cuboid drawn on the page.



1. Label the edges 6, 4 and 3 on the cuboid grid
2. Count the unit cubes in one 6 by 4 layer
3. Write the volume of the whole $6 \times 4 \times 3$ cuboid

PRACTICE

- 1 A builder fills a box that measures **3 cm** by **2 cm** by **2 cm** with centimetre cubes.
 $3 \times 2 \times 2 = ?$
- 2 A maker builds a box **5 cm** long, **4 cm** wide and **2 cm** high and packs it full of little cubes.
 $5 \times 4 \times 2 = ?$
- 3 A carpenter makes a box **5 cm** by **3 cm** by **2 cm** and wants to know how many centimetre cubes will fill it.
 $5 \times 3 \times 2 = ?$
- 4 A maker builds a perfect **4 cm** cube box and packs it with little centimetre cubes.
 $4 \text{ cm cube} = ?$

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. The volume of a cuboid is found by multiplying its three dimensions together.
- b. A 3 cm cube has the same volume as a $3 \text{ cm} \times 3 \text{ cm} \times 3 \text{ cm}$ cuboid.
- c. A cuboid with a base area of 15 cm^2 and a height of 4 cm has a volume of 15 cm^3 .
- d. Two cuboids with the same length and breadth must have the same volume.