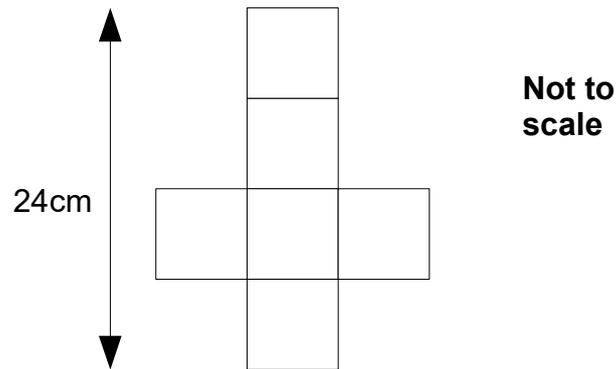


1

This is the net of a cube.

What is the **volume** of the cube?

$$24 \div 4 = 6$$

$$6 \times 6 \times 6$$

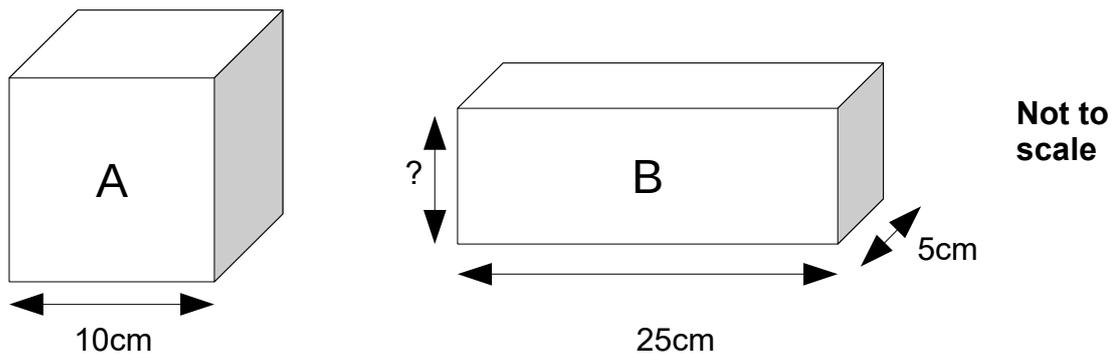
$$\begin{array}{r} 36 \\ \times 6 \\ \hline 216 \\ \text{\scriptsize 3} \end{array}$$

$$216 \text{ cm}^3$$

1 mark

2

Cube A and cuboid B have the same volume.



Calculate the missing length on cuboid B.

$$10 \times 10 \times 10 = 1000 \text{ (volume)}$$

$$5 \times 25 \times ? = 1000$$

$$125 \times ? = 1000$$

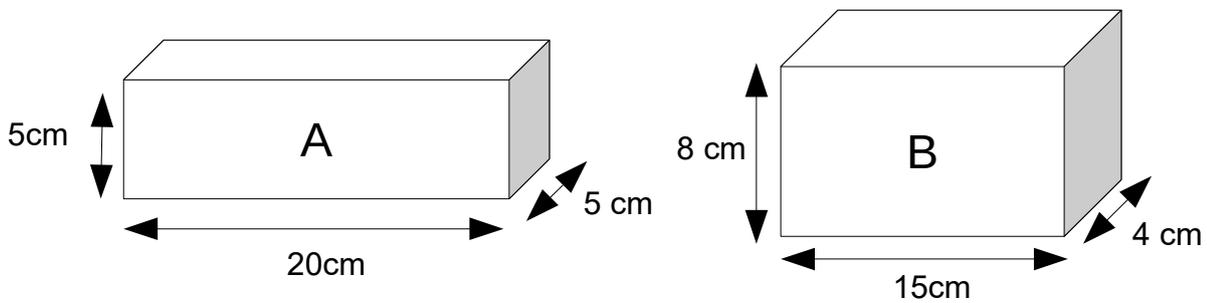
$$1000 \div 125 = 8$$

$$8 \text{ cm}$$

2 marks

3

Here are two water containers, A and B.



Which container can hold the most water?

Show
Your
method

$$A: 20 \times 5 \times 5 = 500 \text{ cm}^3$$

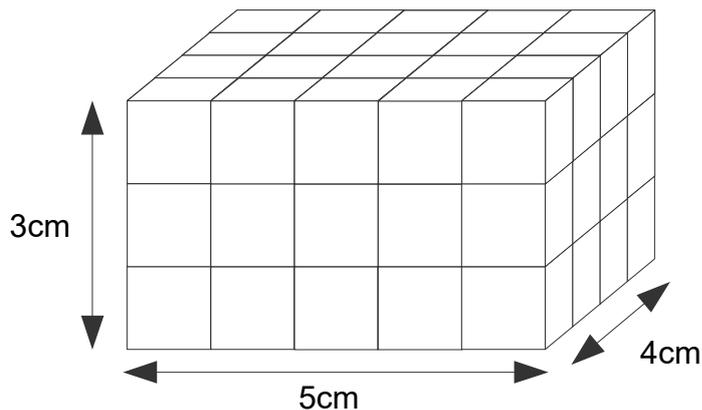
$$B: 15 \times 4 \times 8 = 480 \text{ cm}^3$$

A

2 marks

4

Here is a cuboid made using centimetre cubes.

Not
actual
size

Sam is going to make a cuboid 4cm longer, 4cm taller and 4cm wider than this cuboid.

Calculate how many **more** cubes Sam will need?Show
Your
method

$$\text{Original cuboid} = 5 \times 4 \times 3 = 60 \text{ cubes}$$

$$\text{New cuboid} = 9 \times 8 \times 7$$

$$\begin{array}{r} 72 \\ \times 7 \\ \hline 504 \\ 1 \end{array}$$

$$\begin{array}{r} 4504 \\ - 60 \\ \hline 444 \end{array}$$

444 cubes

2 marks