Guide to:
Volume of a cuboid

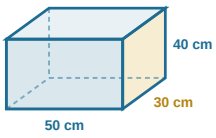
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Explanation:

The **volume of a cuboid** is the amount of 3D space inside it, measured in cubic units (**cm³** or **m³**): **Volume = length × width × height** ($V = l \times w \times h$). For a **cube** of side s, **Volume = s^3**.

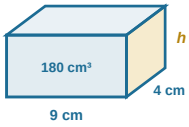
Make sure all three dimensions are in the **same unit** before multiplying. For liquid capacity questions, remember the vital conversion: **1 litre = 1000 ml = 1000 cm³**.

Example 1: A cuboid fish tank measures **50 cm by 30 cm by 40 cm**. Work out its capacity in **litres**.



$V = 50 \times 30 \times 40$
$= \mathbf{60{,}000\ cm^3}$
$\div 1000 = \mathbf{60\ litres}$

Example 2: A cuboid has volume **180 cm³**, length **9 cm**, and width **4 cm**. Find its height h.



$9 \times 4 \times h = 180$
$\mathbf{36}h = \mathbf{180}$
$h = 180 \div 36 = \mathbf{5\ cm}$

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