

Key Vocabulary

Volume of Cubes and Cuboids

cubed

Volume is measured in cubed units. For example, **cm³**, **m³** and **km³**.

area

To calculate the volume of cubes and cuboids:

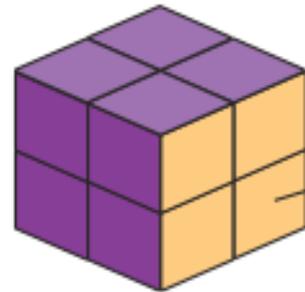
cross-section

1. Calculate the area of the cross-section (one face).
2. Multiply the area of the cross-section (one face) by its depth.



prism

cube



Area of cross section (face) = $2\text{cm} \times 2\text{cm} = 4\text{cm}^2$

$4\text{cm}^2 \times 2\text{cm} = \text{Volume of } 8\text{cm}^3$



cuboid

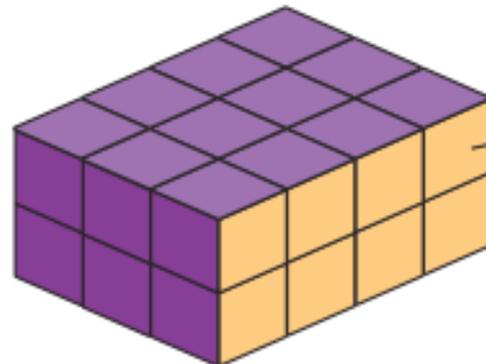
face

length

height

width

depth



Area of cross section (face) = $4\text{cm} \times 2\text{cm} = 8\text{cm}^2$

$8\text{cm}^2 \times 3\text{cm} = \text{Volume of } 24\text{cm}^3$



