

## Key Vocabulary

## Volume of Cubes and Cuboids

cubed

area

cross-section

prism

cube

cuboid

face

length

height

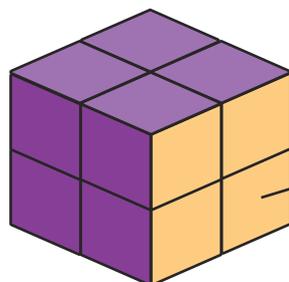
width

depth

Volume is measured in cubed units. For example, **cm<sup>3</sup>**, **m<sup>3</sup>** and **km<sup>3</sup>**.

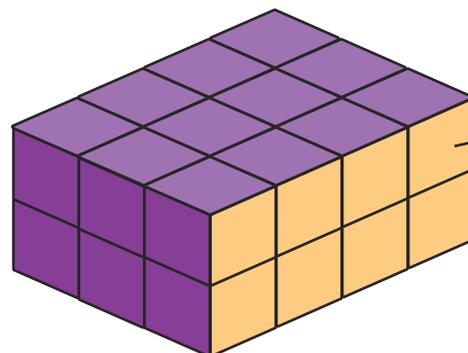
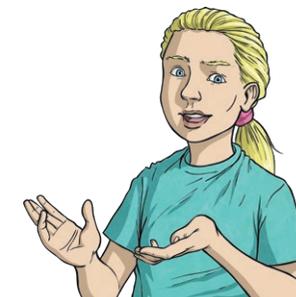
To calculate the volume of cubes and cuboids:

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



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

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



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

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

