

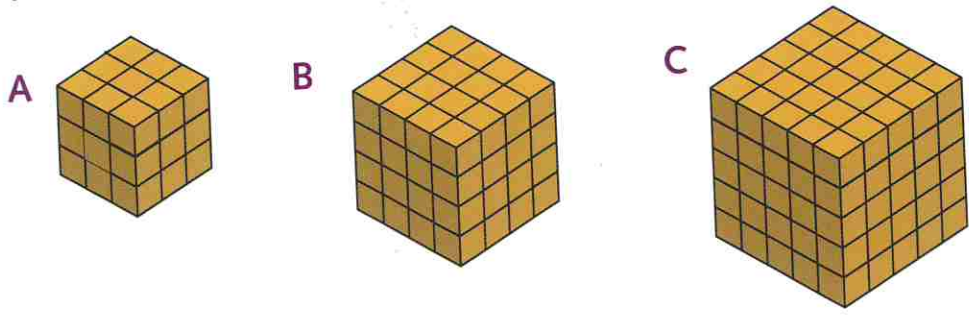


Volume of cubes and cuboids

Calculate the volume of cubes and cuboids using the rule $V = l b h$

Challenge 1

1 Each cube is made with 1 cm^3 cubes. Calculate the volume of these cubes using the rule $V = l b h$.



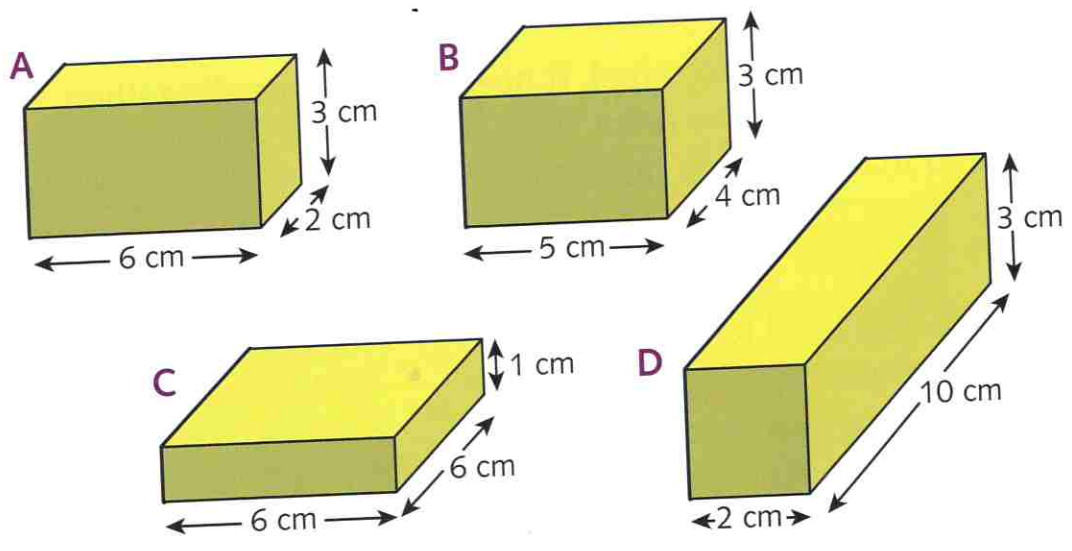
Example

$$V = l b h$$

$$= 2 \times 2 \times 2$$

$$= 8 \text{ cm}^3$$

2 The arrows show the length, breadth and height of each cuboid. Calculate the volume of these cuboids using the rule $V = l b h$.



Example

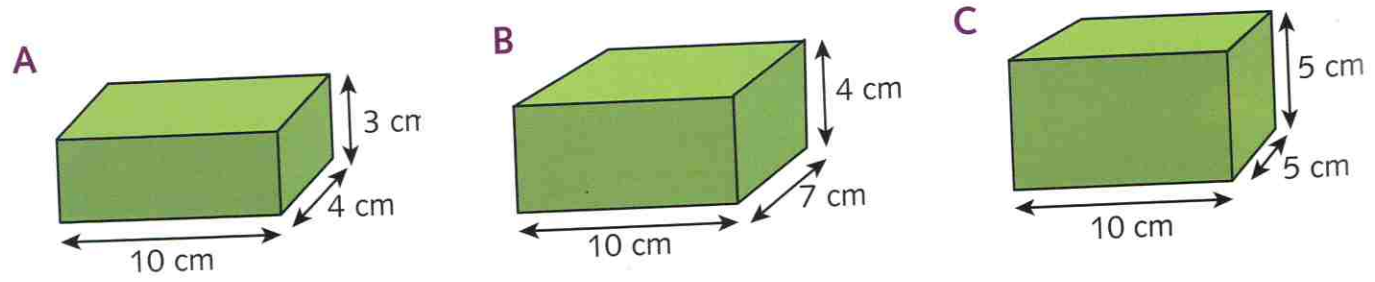
$$V = l b h$$

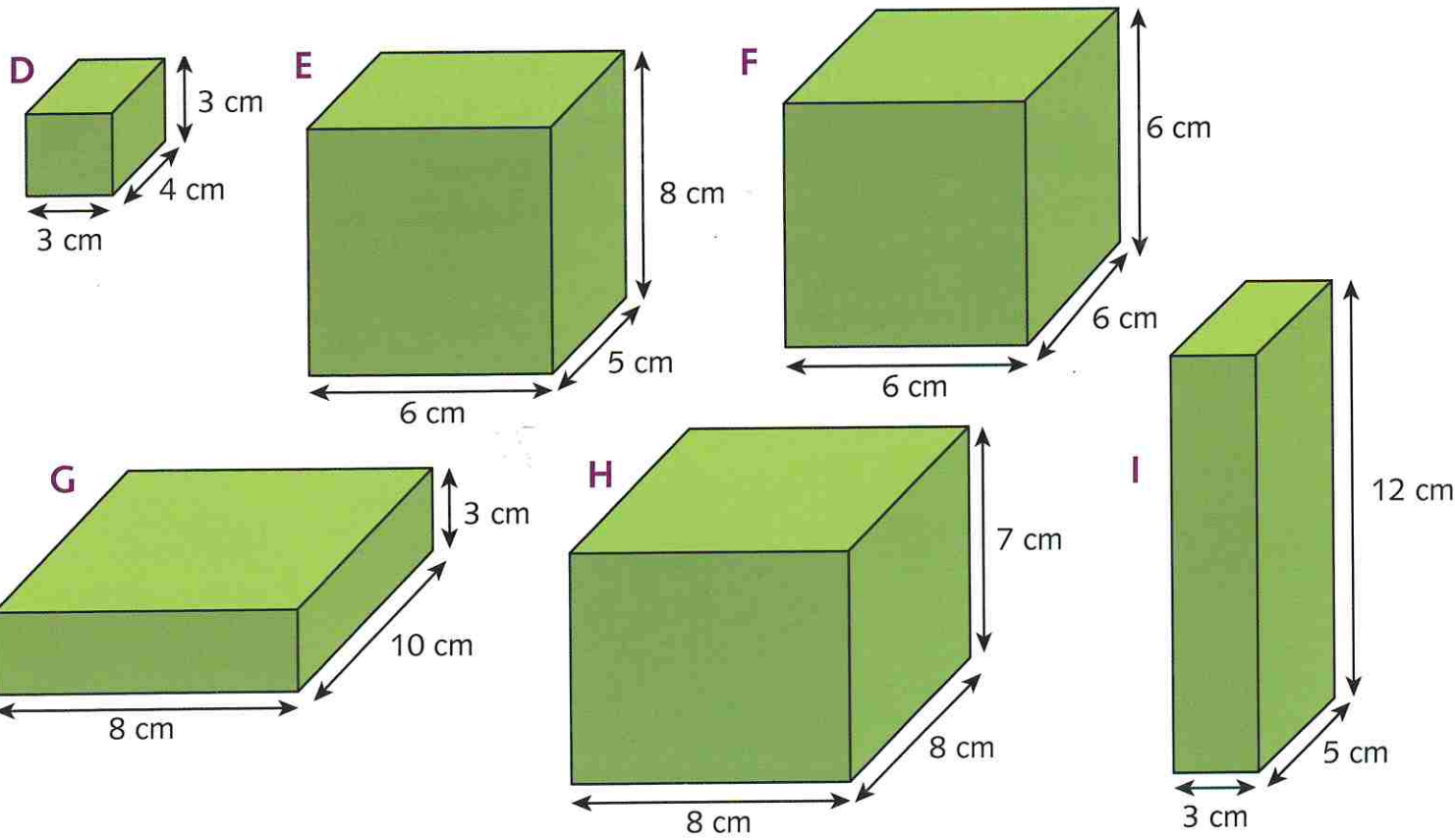
$$= 5 \times 2 \times 3$$

$$= 30 \text{ cm}^3$$

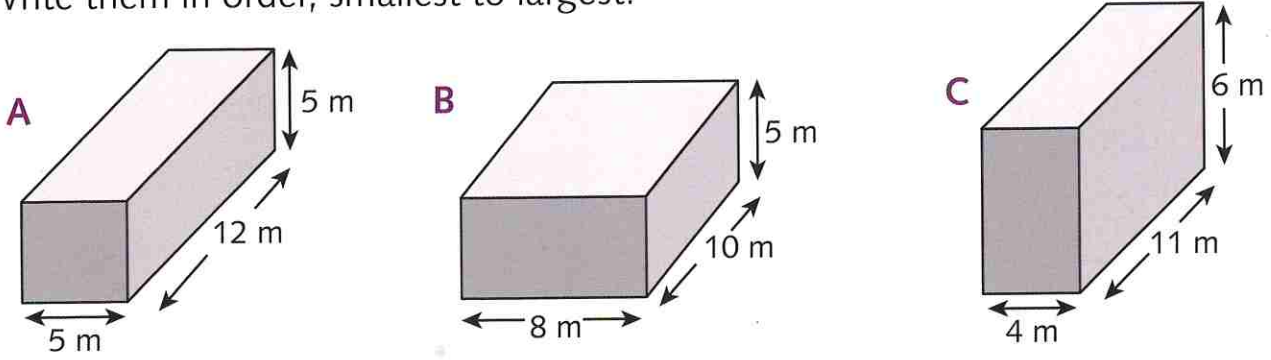
Challenge 2

1 Calculate the volume of these cubes and cuboids using the rule $V = l b h$.

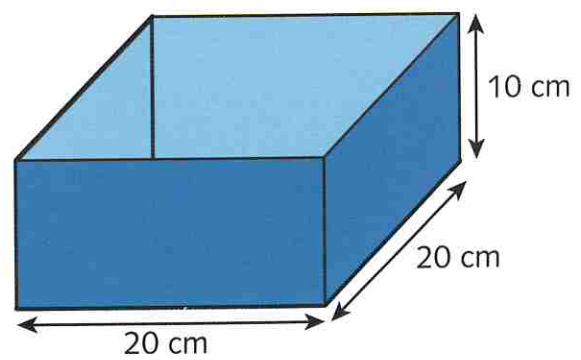
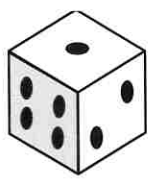




2 Calculate the volume of these large containers in cubic metres. Write them in order, smallest to largest.



1 A normal 1–6 dot dice has edges of 2 cm. Work out how many dice will fit into this box.



2 A cube has edges of 4 cm. Draw a diagram of a cuboid that will hold 100 of these cubes. Label the dimensions to show its length, breadth and height.

