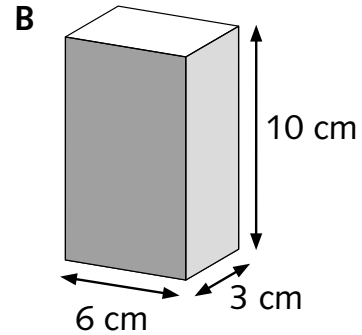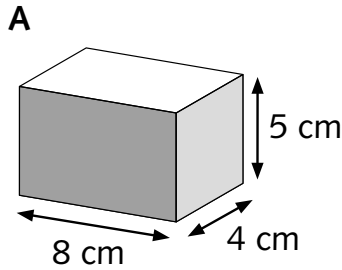Name: _____ Date: _____

Calculating volume

Convert between units of capacity to solve problems using decimal notation

Challenges 1,2,3

In the table below, write the length, breadth and height of each cuboid. Calculate the volume using the rule $V = lbh$.

A

5 cm

8 cm 4 cm

B

10 cm

6 cm 3 cm

Cuboid	Length (cm)	Breadth (cm)	Height (cm)	Volume (cm³)
A				
B				

Challenges 2,3

Calculate the volume or the missing length for these different cuboids.

Cuboid	*l*	*b*	*h*	*V*
A	12 mm	6 mm	5 mm	
B	6 cm	12 cm		216 cm³
C	7 m		4 m	168 cm³

Challenge 3

Find two different cuboid shapes, such as a cereal packet, tissue box or a paperback book. Use a ruler to measure to the nearest centimetre the dimensions of each cuboid and calculate its volume. Use the back of this sheet to record the dimensions and volume of each cuboid.

You will need:
• ruler
• two everyday items, cuboid in shape

Work with someone at home to make a rough estimate of the volume of a cuboid object, for example, a carton of orange juice or a CD case. Write your object and estimate on the back of this sheet.