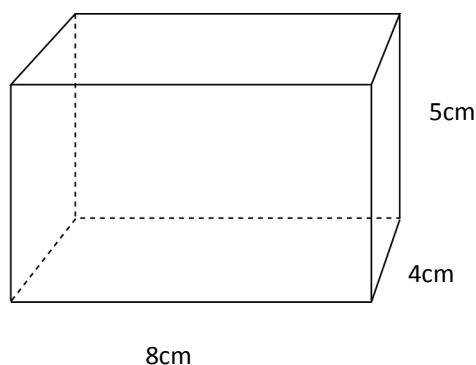
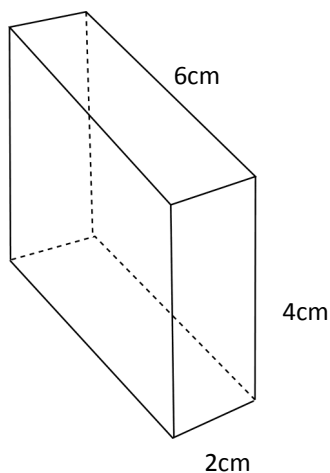


## Volume

1. What is the volume of this cuboid?



2. Find the volume of this cuboid.



3. The length, width and height of a cuboid are: 5cm, 2cm and 3cm. What is its volume?

4. Find the missing measurements in this table:

Length	Width	Height	Volume
10cm	4cm	3cm	
	6cm	2cm	$60\text{cm}^3$
8cm	2cm		$48\text{cm}^3$
10m		6m	$180\text{m}^3$
9mm	2mm		$72\text{mm}^3$

5. a) A cuboid has a volume of  $72\text{cm}^3$ . If the length, width and height are all whole numbers, how many different sets of measurements can you find?

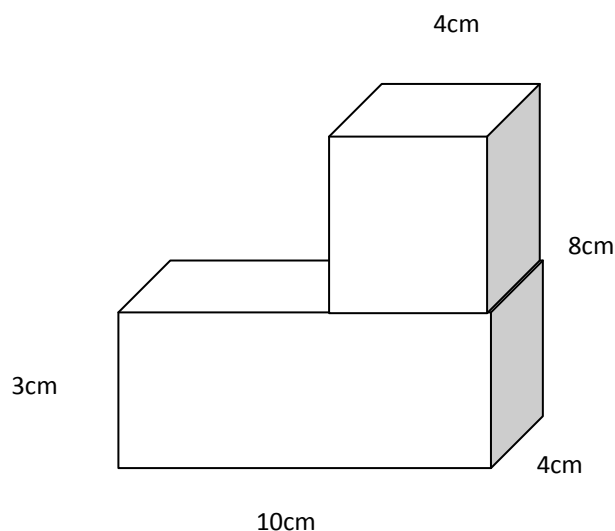
b) How many can you find for a cuboid with volume  $96\text{cm}^3$ ?

6. What is the volume of a cube which has an edge measuring 2cm?
7. One face of a cube has an area of  $25\text{cm}^2$ . What is its volume?
8. The surface area of a cube is  $96\text{cm}^2$ . What is the length of one side?  
What is its volume?
9. A cube has a volume of  $216\text{cm}^3$ . What is the length of one side?
10. Kloggs Cereal Company is wanting to sell its new breakfast cereal—Choco Crispy Poppers. A 500g portion will take up  $700\text{cm}^3$ . The box manufacturer makes 3 sizes of cardboard boxes:

Box	Length (cm)	Width (cm)	Height (cm)	
A	40	4	4	
B	25	5	6	
C	30	6	4	

Which box would be most suitable for a 500g portion of Choco Crispy Poppers?

11. A cuboid has 3 different sized faces. The areas of 2 of the faces are  $84\text{cm}^2$  and  $56\text{cm}^2$ . The volume of the cuboid is  $672\text{cm}^3$ . Find
  - a) the length, width and height of the cuboid.
  - b) the area of the third face.
12. Find the volume of this shape.



12. Find the volume of these shapes:

