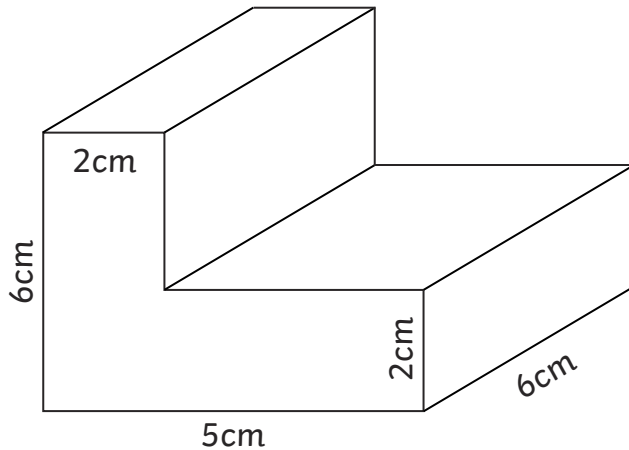
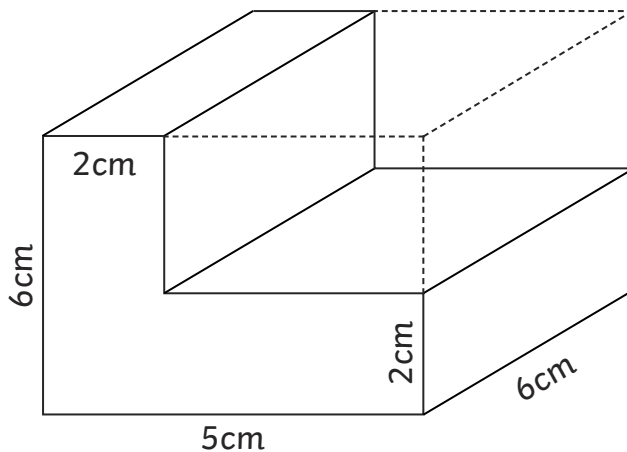


# Volume of Composite Shapes

I can calculate the volume of composite shapes.



We could find the volume of this composite shape by adding together the volume of the cuboids.



An alternative way of finding volume of a shape like this would be to imagine that this was a whole cuboid. Find the volume of this, then subtract the volume of the shape that isn't part of the actual shape.

If this was the whole shape, the volume would be

$$6\text{cm} \times 5\text{cm} \times 6\text{cm} = 180\text{cm}^3$$

Now calculate the volume of the space shown by the dotted lines.

$$6\text{cm} \times 4\text{cm} \times 3\text{cm} = 72\text{cm}^3$$

Now subtract this from the bigger volume.

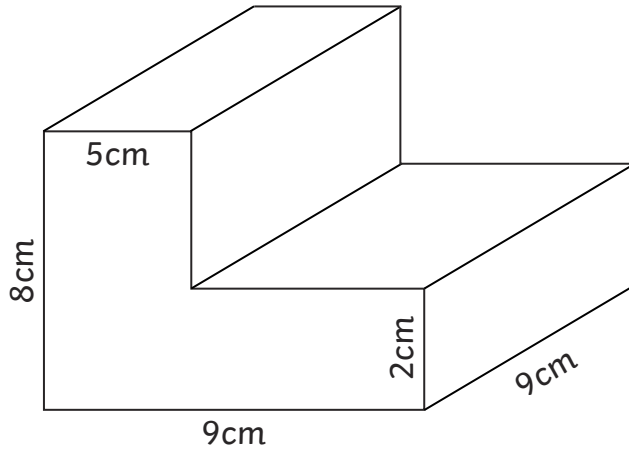
$$180\text{cm}^3 - 72\text{cm}^3 = 108\text{cm}^3$$

The volume of the original shape is **108cm<sup>3</sup>**.

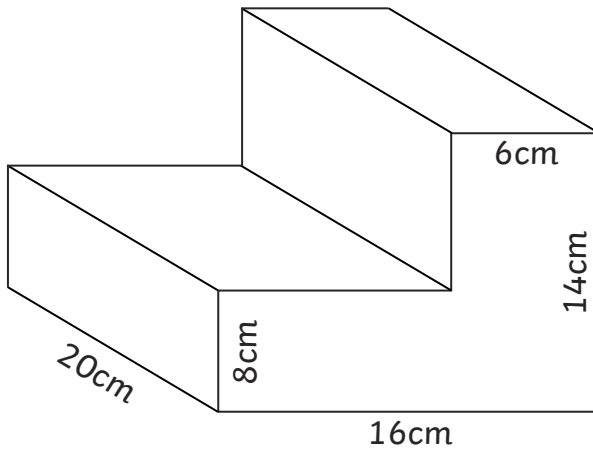
## Volume of Composite Shapes

Use this method to calculate the volume of these shapes:

1.



2.



# Volume of Composite Shapes

## Answers

1.  $432\text{cm}^3$
2.  $3280\text{cm}^3$