# Calculating the volume of a brick

#### http://www.virtualmaths.org/activities/shapes/brick



This is a facing brick. Bricks like this are characterised by having holes in the centre.

Although the shape looks quite simple, it's easy to get the volume calculation wrong and get an incorrect answer.

The correct way to calculate the volume of a brick like this is highlighted in this worksheet.

We'll call the volume of the brick  ${m V}$ 



#### Shapes, Space & Measure



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## (3)

What is the volume of the cuboid?

a =

What is the volume of one of the cylinder-shaped holes?

**b** = As there are 3 holes in this brick, we need to multiply the volume of the cylinder by 3, to get the combined volume of the brick's holes.

So let's call this value C

C

To get an accurate volume for the brick, subtract the combined volume of the holes from the volume of the cuboid.



So what is the volume of the brick?

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