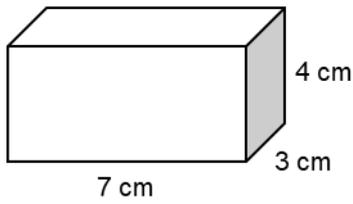


## Volumes of Cubes and Cuboids GREEN

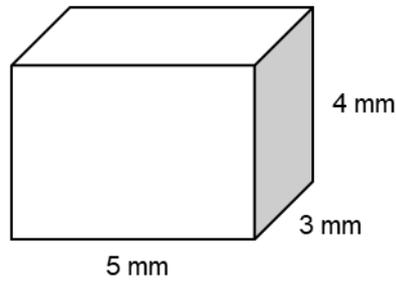
### Question 1

Calculate the volumes of the cuboids below.

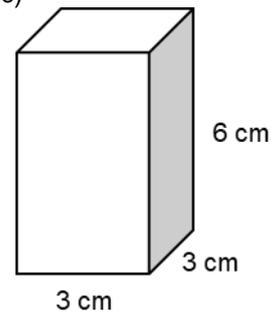
a)



b)



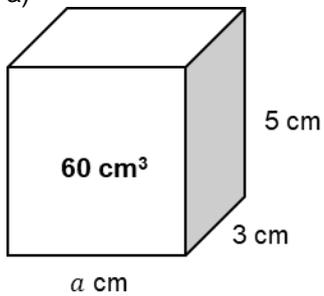
c)



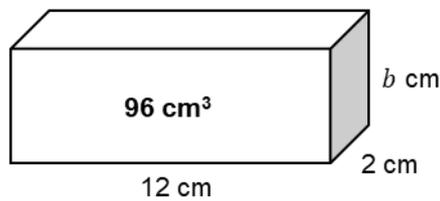
### Question 2

Calculate the missing lengths on the cuboids below.

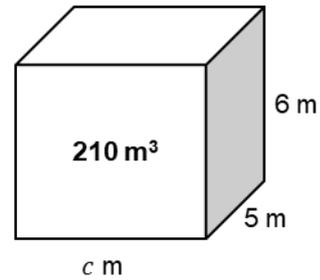
a)



b)

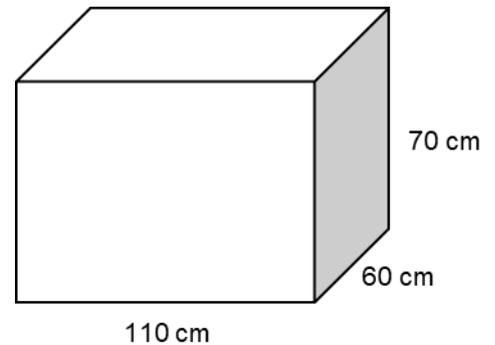


c)



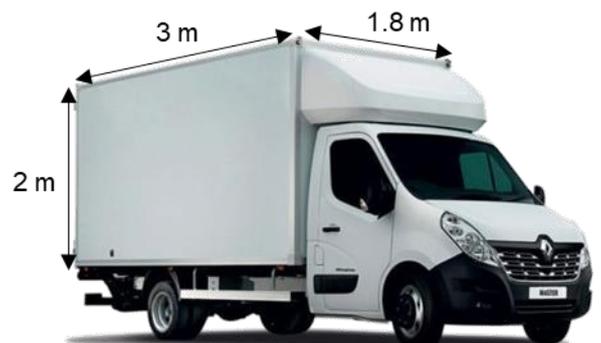
### Question 3

The diagram shows an empty water container.  
The container is going to be filled using a hose pipe.  
The water will flow into the container at a rate of 2 litres per second.  
How long will it take for the container to be filled completely?



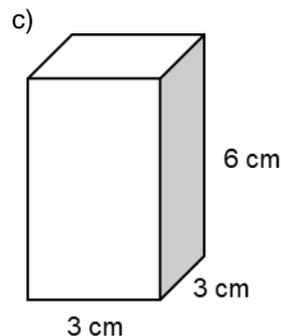
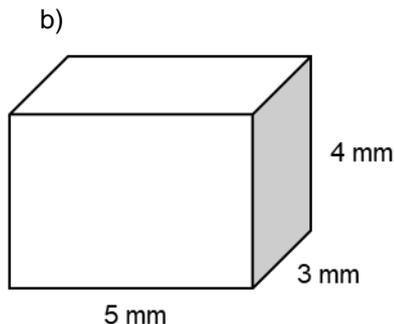
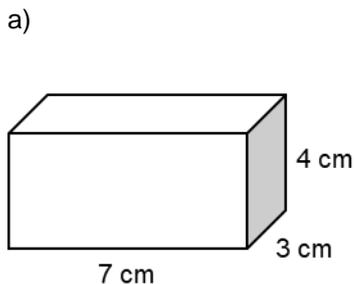
### Question 4

Claire has a van.  
She is using the van to deliver boxes.  
Each box is a cuboid, 60 cm by 30 cm by 40 cm.  
The van has the space for the boxes in the shape of a cuboid with length 3 m, width 1.8 m and height 2 m.  
Work out how many boxes can Claire fit into the van.



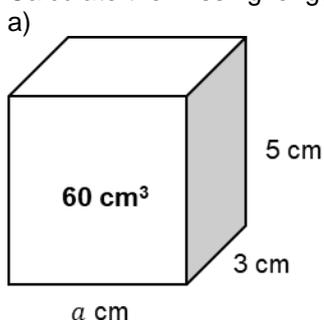
**Question 1**

Calculate the volumes of the cuboids below.

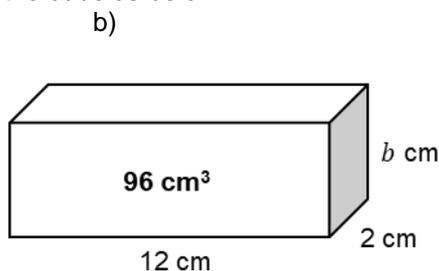


**Question 2**

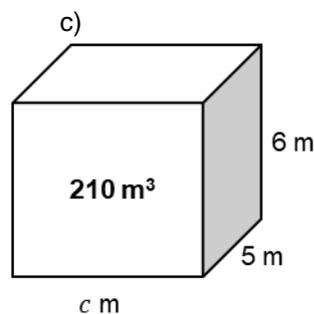
Calculate the missing lengths on the cuboids below.



$$60 = a \times 3 \times 5$$



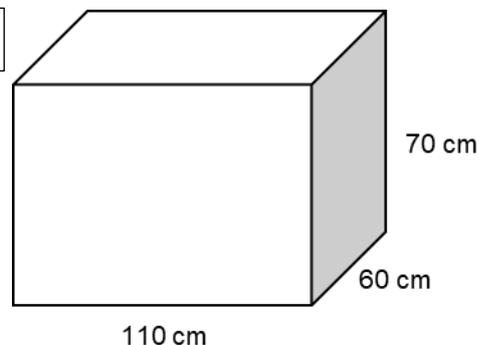
$$96 =$$



**Question 3**

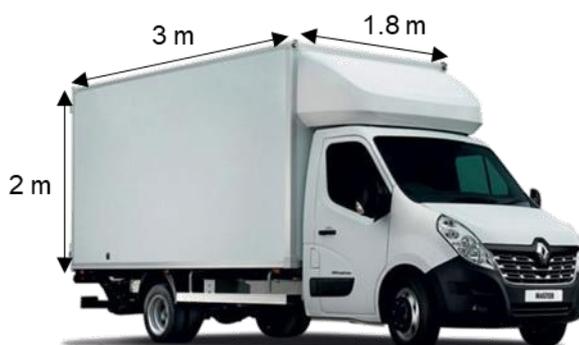
The diagram shows an empty water container.  
The container is going to be filled using a hose pipe.  
The water will flow into the container at a rate of 2 litres per second.  
How long will it take for the container to be filled completely?

$$1 \text{ L} = 1000 \text{ cm}^3$$



**Question 4**

Claire has a van.  
She is using the van to deliver boxes.  
Each box is a cuboid, 60 cm by 30 cm by 40 cm.  
The van has the space for the boxes in the shape of a cuboid with length 3 m, width 1.8 m and height 2 m  
Work out how many boxes can Claire fit into the van.



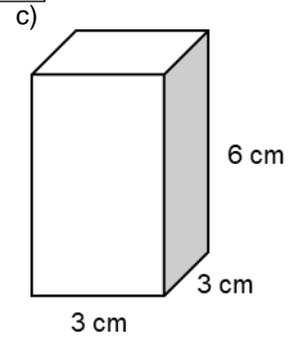
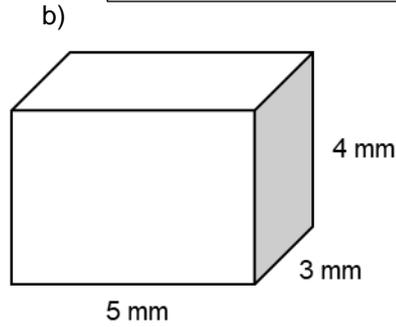
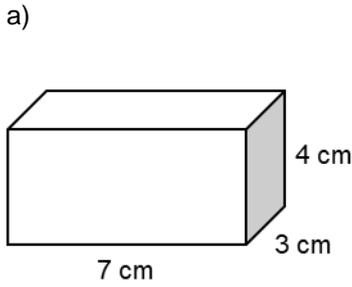
Divide the dimensions of the van by the dimensions of the boxes

## Volumes of Cubes and Cuboids RED

### Question 1

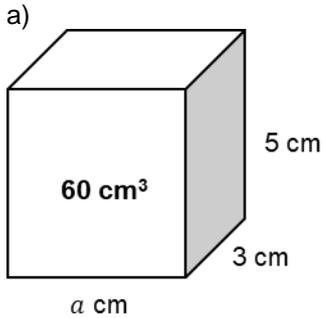
Calculate the volumes of the cuboids below.

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$



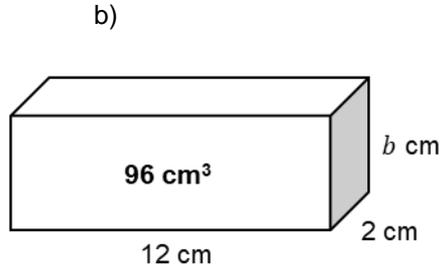
### Question 2

Calculate the missing lengths on the cuboids below.



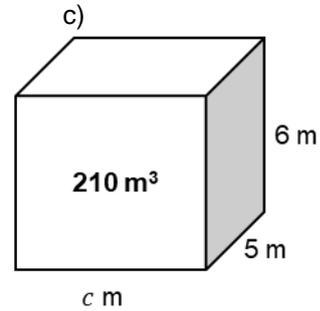
$$60 = a \times 3 \times 5$$

$$60 = 15a$$



$$96 = 12 \times 2 \times b$$

$$96 =$$



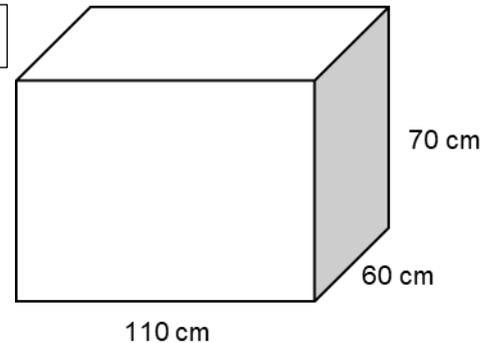
$$210 =$$

### Question 3

The diagram shows an empty water container. The container is going to be filled using a hose pipe. The water will flow into the container at a rate of 2 litres per second. How long will it take for the container to be filled completely?

$$1 \text{ L} = 1000 \text{ cm}^3$$

$$\text{Volume} = 110 \times 60 \times 70 =$$



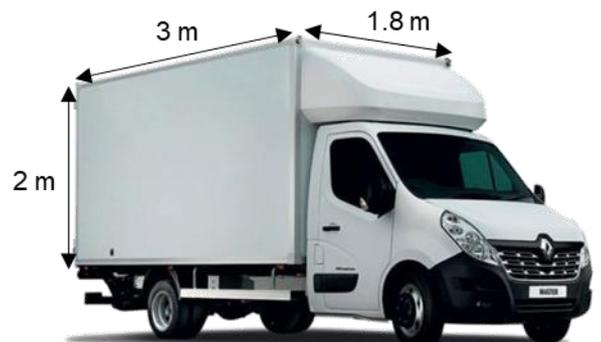
### Question 4

Claire has a van. She is using the van to deliver boxes. Each box is a cuboid, 60 cm by 30 cm by 40 cm. The van has the space for the boxes in the shape of a cuboid with length 3 m, width 1.8 m and height 2 m. Work out how many boxes can Claire fit into the van.

$$300 \text{ cm} \div 60 \text{ cm} =$$

$$180 \text{ cm} \div$$

$$200 \text{ cm} \div$$



Divide the dimensions of the van by the dimensions of the boxes