**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.

**Volumes of Cubes and Cuboids AMBER**

**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)



$60=a×3×5$ $96=$

1 L = 1000 cm3

**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.

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

**Volumes of Cubes and Cuboids RED**

**Question 1**

Volume = length × width × height

Calculate the volumes of the cuboids below.

a) b) c)



**Question 2**

Calculate the missing lengths on the cuboids below.

a) b) c)



$60=a×3×5$ $96=12×2×b$ $210=$

$60=15a$ $96=$

1 L = 1000 cm3

**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?

Volume $=110×60×70=$



**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.

$300 cm÷60 cm=$

$180 cm÷$

$200 cm÷$

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