

Question 1: Calculate the volume of each prism below
(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)


Question 2: Calculate the volume of each prism below
(a)

(b)

(c)

(d)

(e)

(f)


## Volume of a Prism <br> Video 356 on www.corbettmaths.com

Question 3: Calculate the volume of each cylinder below
(a)

(b)

(c)


## Apply

Question 1: Cillian makes two cuboids out of clay. Both cuboids have the same volume. Find y


Question 2: The cuboid and the triangular prism have the same volume.
Find x .


Question 3: Boxes of coffee are placed into a crate.
Each box of coffee is a cuboid and the crate is also a cuboid.
How many boxes of coffee fit into the crate?


Question 4: James wants to fill an empty flowerpot with soil.
He has 2 litres of soil.
Given 1 litre $=1000 \mathrm{~cm}^{3}$
Does James have enough soil to fill the flowerpot?


## Volume of a Prism <br> Video 356 on www.corbettmaths.com

Question 5: The solid triangular prism shown below is made from metal.
The prism is melted down and the metal is used to create a solid cube. Find the side length of the cube.


Question 6: The swimming pool in a leisure centre is shown below.
The length of the swimming pool is 25 m and the width is 12 m .
The depth of the shallow end is 1 m and the depth of the deep end is 2.4 m .
Given $1 \mathrm{~m}^{3}=1000$ litres
Work out how much water, in litres, the swimming pool holds.


Question 7: A fish tank is $1 / 4$ full of water.
Harry pours a 400 ml glass of water into the fish tank.
Given $1 \mathrm{ml}=1 \mathrm{~cm}^{3}$
What will the depth of the water of the fish tank then be?


Question 8: A solid glass paperweight is in the shape of a triangular prism The density of the glass is $2.4 \mathrm{~g} / \mathrm{cm}^{3}$ Work out the mass of the paperweight.


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