Name:

Exam Style Questions Volume of a Cube Volume of a Cuboid Corbettmaths



Equipment needed: Calculator, pen

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Check your answers seem right.
- 3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 355



Answers and Video Solutions







Work out the volume of the cube. State the units of your answer.

(2)



Calculate the volume of a cube with side length 6cm. State the units of your answer.

(2)







Work out the volume of the cuboid.



5cm

3cm

Work out the volume of the cuboid.

.....cm³ (2)





Work out the volume of this cuboid. State the units of your answer.



Work out the volume of this cuboid. State the units of your answer.





The volume of the cuboid is 105cm³. Find y.



The volume of the cuboid is 2700cm³. Find y.

.....cm (2) 9. A cube is shown below.



The volume of the cube is 27 cm³. Find x.



Both cuboids have the same volume.

Find y.

11. The net of a cuboid is shown below on a centimetre square grid.





Work out the volume of the cuboid.



Calculate the volume of the box.



Work out the volume of the swimming pool. State the units of your answer.

15. Aisha pours fruit juice into a cuboid container.





The container is $\frac{3}{4}$ full of fruit juice

Aisha uses the fruit juice to fill as many 150ml cups as possible.

How many cups can Aisha fill?

(4)

16. Water is stored in two cuboid tanks, A and B.



Tank A is full. The volume of water in the two tanks is equal.

Work out the depth of the water in Tank B.

(4)



Bianca has a puzzle. The puzzle has a cardboard box and many small wooden cubes.

The box is a cuboid that measures 8cm by 10cm by 6cm. Each wooden cube has a side length of 2cm.



How many wooden cubes will fit in the cardboard box?

(3)





Work out the greatest number of boxes that can be stored in the store room.

(3)



The carton is in the shape of a cuboid.



The depth of the milk in the carton is 12cm.

The carton is turned so that it stands on the shaded (orange) face.

Work out the depth of the milk now.



A cuboid has a volume of 135cm³ The area of the base of the cuboid is 15cm²

Work out the height of the cuboid.

.....cm (2)



The surface area of a cube is 1734cm²

Work out the volume of the cube.

.....cm³ (2)