

Name: \_\_\_\_\_

### Exam Style Questions

Volume of a Cube  
Volume of a Cuboid



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

#### Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

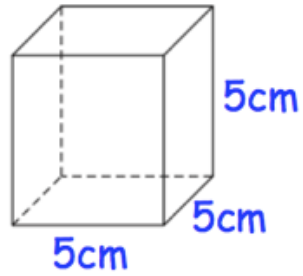
Revision for this topic

Secondary

Video 355



1. Shown below is a cube of side 5cm.



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

$$5 \times 5 \times 5 = 125$$

$$\frac{125\text{cm}^3}{(2)}$$

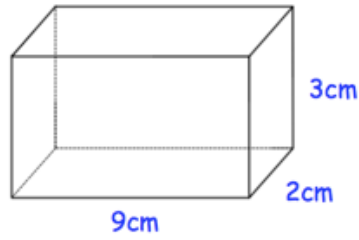
2. Calculate the volume of a cube with side length 6cm.  
State the units of your answer.



$$6 \times 6 \times 6 = 216$$

$$\frac{216\text{cm}^3}{(2)}$$

3. Shown below is a solid cuboid.

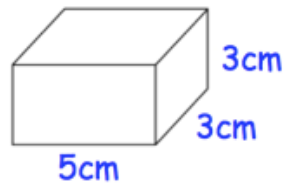


Work out the volume of the cuboid.

$$9 \times 2 \times 3 = 54$$

54 .....cm<sup>3</sup>  
(2)

4. Here is a cuboid.

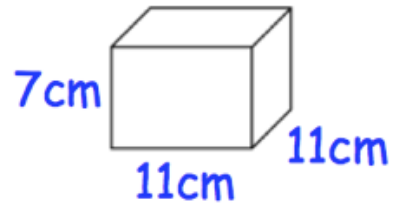


Work out the volume of the cuboid.

$$5 \times 3 \times 3 = 45$$

45 .....cm<sup>3</sup>  
(2)

5.



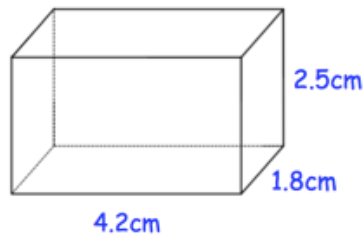
Work out the volume of this cuboid.  
State the units of your answer.

$$7 \times 11 \times 11$$

$$\underline{847 \text{ cm}^3}$$

(2)

6.



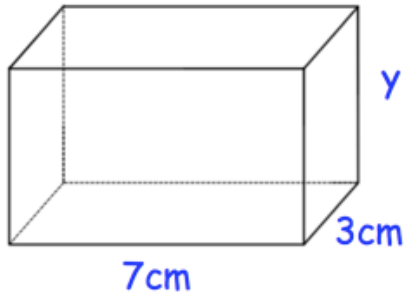
Work out the volume of this cuboid.  
State the units of your answer.

$$4.2 \times 1.8 \times 2.5 = 18.9$$

$$\underline{18.9 \text{ cm}^3}$$

(2)

7. A cuboid is drawn below.

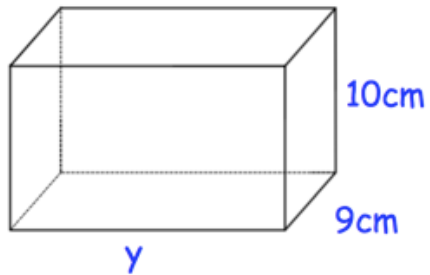


The volume of the cuboid is  $105\text{cm}^3$ .  
Find  $y$ .

$$7 \times 3 = 21$$
$$105 \div 21 = 5$$

.....**5**.....cm  
(2)

8.

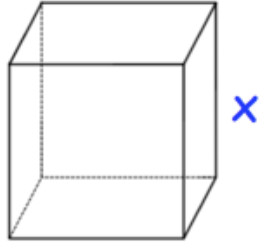


The volume of the cuboid is  $2700\text{cm}^3$ .  
Find  $y$ .

$$9 \times 10 = 90$$
$$2700 \div 90 = 30$$

.....**30**.....cm  
(2)

9. A cube is shown below.

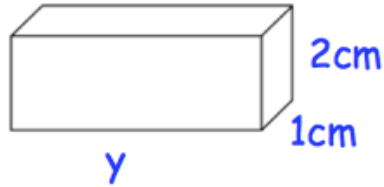
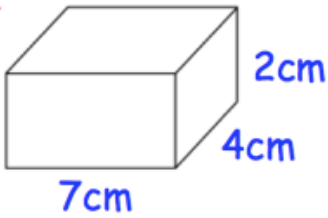


The volume of the cube is  $27\text{cm}^3$ .  
Find  $x$ .

$$\sqrt[3]{27} = 3$$

.....cm  
(2)

10. Shown below are two cuboids.



Both cuboids have the same volume.

Find  $y$ .

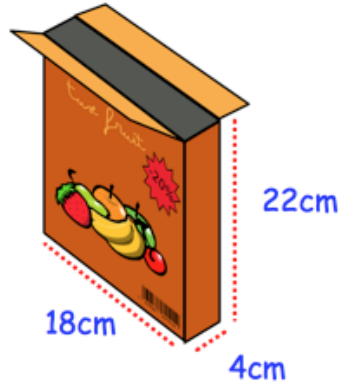
$$7 \times 4 \times 2 = 56$$

$$2 \times 1 = 2$$

$$56 \div 2 = 28$$

.....cm  
(3)

11. Shown below is a cereal box.

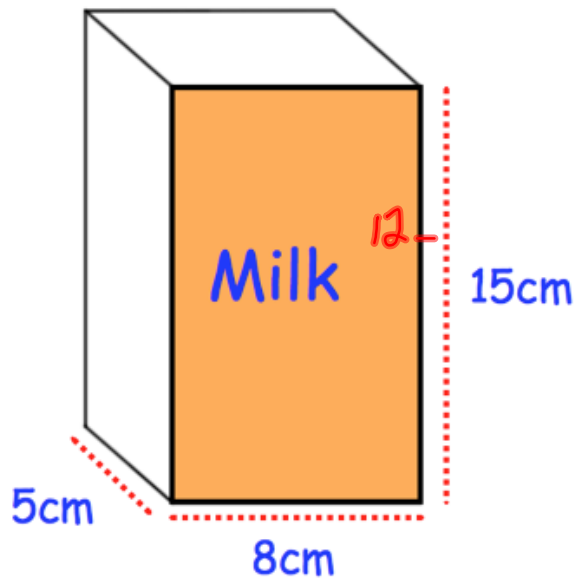


Calculate the volume of the box.

$$18 \times 4 \times 22 = 1584$$

1584  
.....cm<sup>3</sup>  
(2)

12. A carton of milk is shown below.  
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.


$$5 \times 8 \times 12 = 480 \text{ cm}^3$$

$$8 \times 15 = 120$$

$$480 \div 120 = 4$$

4  
.....cm  
(3)



13. A cuboid has a volume of  $135\text{cm}^3$ .  
The area of the base of the cuboid is  $15\text{cm}^2$ .  
 Work out the height of the cuboid.

$$135 \div 15 = 9$$

.....9.....cm  
(2)

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