



THIRD SPACE
LEARNING

GCSE Exam Questions

Volume of a Cuboid | Geometry
& Measure

GCSE Exam Questions: Volume of a Cuboid

- 1) (a) Work out the volume of a cube with side length 11cm .

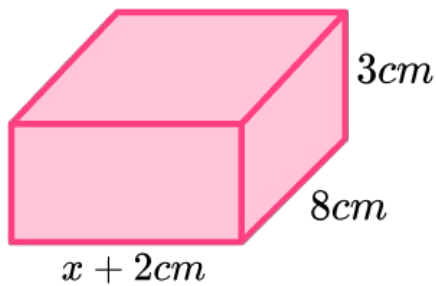
(2)

- (b) Convert the volume to m^3 .

(2)

(4 marks)

- 2) The volume of the cuboid below is 264cm^3 .
Work out the value of x .



(2 marks)

GCSE Exam Questions: Volume of a Cuboid

- 3) (a) The volume of this cuboid is 3744cm^3 .

Work out the length of the cuboid.

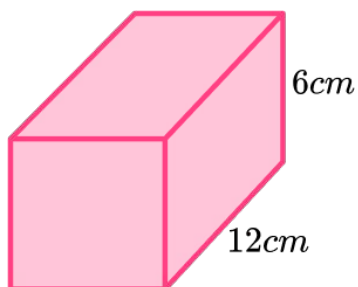


Diagram
not to scale

(2)

- (b) Convert the volume to mm^3 .

(2)
(4 marks)

GCSE Exam Questions: Volume of a Cuboid

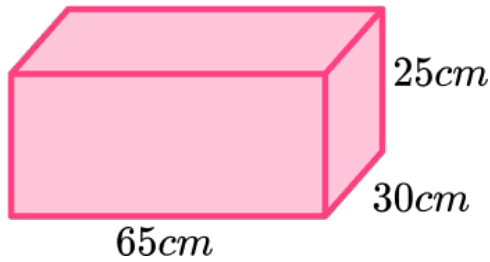
- 4) (a) The fuel tank from Samantha's car is pictured below.

The tank is currently $\frac{1}{5}$ full.

Samantha wants to fill the tank completely.

How many litres does she need to fill up so that the tank is full?

($1l = 1000cm^3$)



(4)

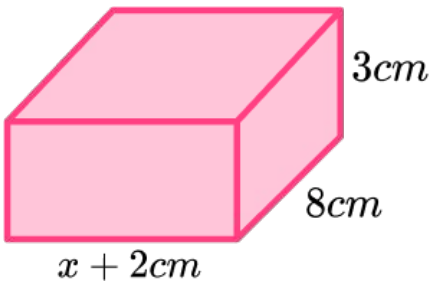
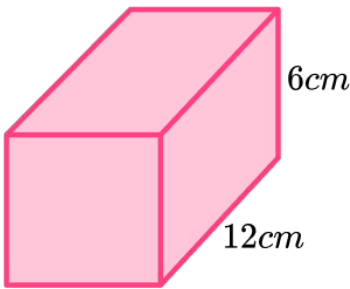
- (b) Fuel costs £1.95 per litre.

How much will it cost Samantha to fill her tank?

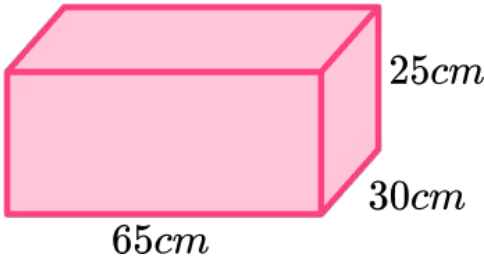
(2)

(6 marks)

GCSE Exam Questions: Volume of a Cuboid Answers

	Question	Answer	Marks
1) (a)	Work out the volume of a cube with side length 11cm .	(a) $11 \times 11 \times 11$ 1331cm^3	(1) (1)
(b)	Convert the volume to m^3 .	(b) $1331 \div 1000000$ oe 0.001331m^3	(1) (1)
2)	The volume of the cuboid on the right is 264cm^3 . Work out the value of x in the diagram below. 	$264 \div 24 = 11$ $x + 2 = 11$ $x = 9$	(1) (1)
3) (a)	The volume of this cuboid is 3744cm^3 . Work out the length of the cuboid. 	(a) $3744 \div 12 \div 6$ $= 52\text{cm}$	(1) (1)
(b)	Convert the volume to m^3 .	(b) $3744 \times 10 \times 10 \times 10$ oe $3\,744\,000\text{mm}^3$	(1) (1)

GCSE Exam Questions: Volume of a Cuboid Answers

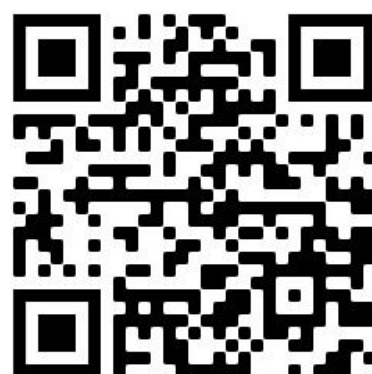
	Question	Answer	Marks
4) (a)	<p>The fuel tank from Samantha's car is pictured below.</p> <p>The tank is currently $\frac{1}{5}$ full.</p> <p>Samantha wants to fill the tank completely.</p> <p>How many litres does she need to fill up so that the tank is full? ($1l = 1000cm^3$)</p> 	<p>(a) $V = l \times w \times h$</p> <p>$V = 65 \times 30 \times 25$</p> <p>$V = 48750cm^3$</p> <p>$48750 \div 1000 = 48.75l$</p> <p>$48.750 \times \frac{4}{5} = 39l$</p>	<p>(1)</p> <p>(1)</p> <p>(1)</p> <p>(1)</p>
(b)	<p>Fuel costs £1.95 per litre.</p> <p>How much will it cost Samantha to fill her tank?</p>	<p>(b) 39×1.95</p> <p>£76.05</p>	<p>(1)</p> <p>(1)</p>

Where to go next?

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