



THIRD SPACE
LEARNING

GCSE Exam Questions

Surface Area of a Cuboid |
Geometry & Measure

GCSE Exam Questions: Surface Area of a Cuboid

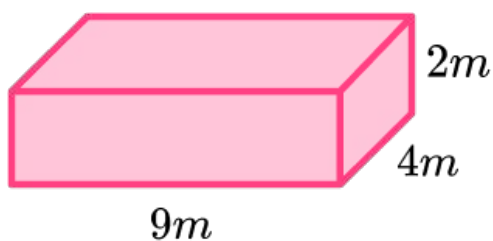
- 1) (a) Work out the surface area of a cube with side length 11cm .

(2)

- (b) Convert the surface area in (a) to m^2 .

(2)
(4 marks)

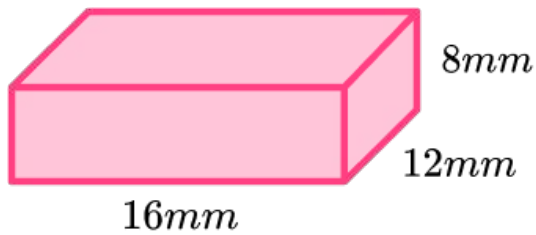
- 2) Work out the surface area of the cuboid.



(2)
(2 marks)

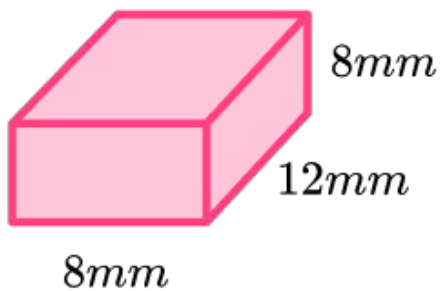
GCSE Exam Questions: Surface Area of a Cuboid

- 3) (a) Work out the surface area of the cuboid.



(2)

- (b) Paula says that the surface area of this cuboid will be half of the surface area of the cuboid above. Is she correct? Show your working.



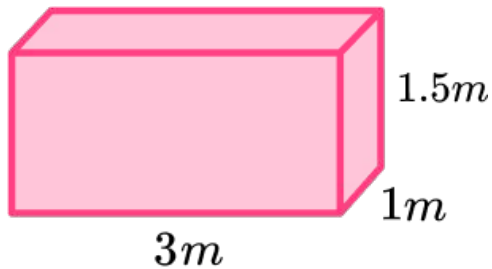
(2)
(4 marks)

GCSE Exam Questions: Surface Area of a Cuboid

- 4) (a) Amanda wants to wrap the present on the right with wrapping paper.

Wrapping comes in $2m$ long rolls with width $1.5m$.

How many rolls of wrapping paper will she need to wrap the entire present?

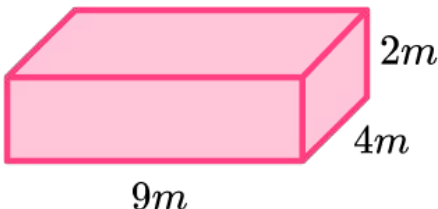
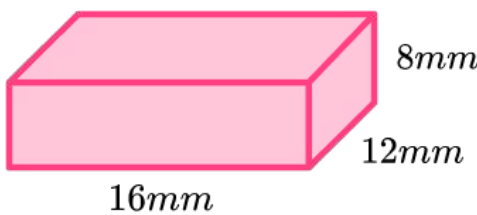
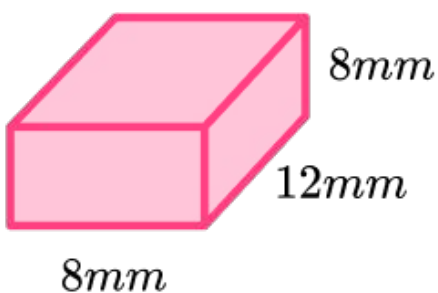


(3)

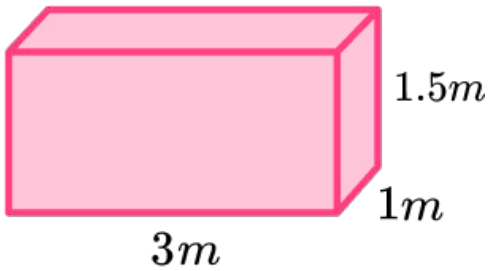
- (b) If each roll of paper costs £17.50, how much will it cost to wrap the entire present?

(2)
(5 marks)

GCSE Exam Questions: Surface Area of a Cuboid Answers

	Question	Answer	Marks
1) (a)	Work out the surface area of a cube with side length 11cm .	(a) $SA = 2lw + 2lh + 2wh$ $SA = 2(11)(11) + 2(11)(11) + 2(11)(11)$ 726cm^2	(1) (1)
(b)	Convert the surface area is (a) to m^2 .	(b) $726\text{cm}^2 \div 100^2$ 0.0726m^2	(1) (1)
2)	Work out the surface area of the cuboid. 	$SA = 2lw + 2lh + 2wh$ $SA = 2(9)(4) + 2(4)(2) + 2(9)(2)$ 124m^2	(1) (1)
3) (a)	Work out the surface area of the cuboid. 	(a) $SA = 2lw + 2lh + 2wh$ $SA = 2(16)(12) + 2(12)(8) + 2(16)(8)$ 832mm^2	(1) (1)
(b)	Paula says that the surface area of this cuboid will be half of the cuboid above. Is she correct? Show your working. 	(b) No she is not correct because the surface area of this cuboid is 512mm^2 $SA = 2lw + 2lh + 2wh$ $SA = 2(8)(12) + 2(12)(8) + 2(8)(8)$ 512mm^2	(1) (1)

GCSE Exam Questions: Surface Area of a Cuboid Answers

	Question	Answer	Marks
4) (a)	<p>Amanda wants to wrap the present on the right with wrapping paper. Wrapping comes in $2m$ long rolls and the width is $1.5m$. How many rolls of wrapping paper will she need to wrap the entire present?</p> 	<p>(a) $SA = 2lw + 2lh + 2wh$ $SA = 2(3)(1) + 2(1)(1.5) + 2(3)(1.5)$ Surface Area = $18m^2$</p> <p>Area of roll = $l \times w$ Area of roll = 2×1.5 Area of roll = $3m^2$</p> <p>$18m^2 \div 3m^2 = 6$</p> <p>6 rolls will be needed to wrap the entire present</p>	<p>(1)</p> <p>(1)</p> <p>(1)</p>
(b)	<p>If each roll of paper costs £17.50, how much will it cost to wrap the entire present?</p>	<p>(b) 6×17.50 £105</p>	<p>(1)</p> <p>(1)</p>

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.