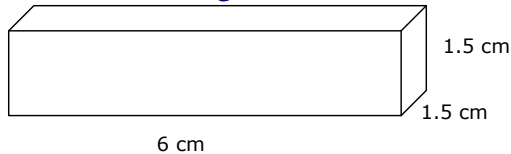


Surface Area

How to ...

Here is a cuboid *has 6 faces each face is a rectangle ...*

Diagram **NOT** accurately drawn




The opposite faces of the cuboid have the same area

The cuboid is 6 cm by 1.5 cm by 1.5 cm.

Work out the total surface area of the cuboid

Front and back =  1.5 Area = $6 \times 1.5 = 9$ *2 of these*

Top and Bottom =  1.5 Area = $6 \times 1.5 = 9$ *2 of these*

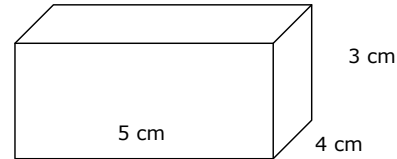
(I've drawn them like this but they are really rectangles)

End faces =  1.5 Area = $1.5 \times 1.5 = 2.25$

Total surface area = $(2 \times 9) + (2 \times 9) + (2 \times 2.25)$
 = 40.5 cm^2 (3)

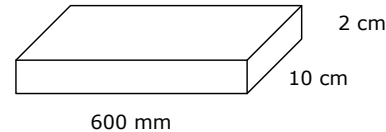
Now have a go yourself ...

Q1.



Calculate the total surface area of the cuboid

Q2.



Calculate the total surface area of the cuboid - state clearly the units of your answer.

Q3. What is the surface area of cuboids with the dimensions:

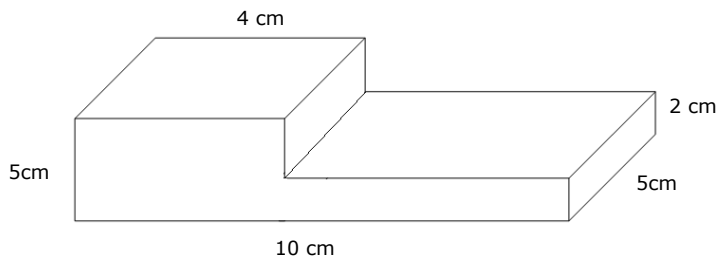
- 6 cm, 7 cm and 8 cm
- 0.5 cm, 30 cm and 10 cm
- 12 m, 300 cm and 7 m

****CHALLENGE****

Q4. A cuboid has a surface area of 174 cm^2 - can you find its height if its width is 3 cm and its length is 5 cm. Is there just one solution?

Exam Questions

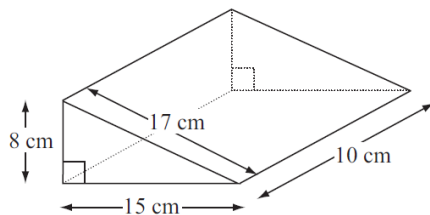
Q1. Work out the total surface area of the L shaped prism.



(4)

Slightly different .. But have a go!

Q2. Work out the total surface area of this triangular prism



(4)

Ready to be marked ?

Checklist



- ☐ Answers checked
- ☐ Have you given the correct units?



Keywords

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Things to remember ...

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What went well ...

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Teacher comment ..