

Bounds Hardest Exam Qs Ever

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Questions in past papers often come up combined with other topics.
Topic tags have been given for each question to enable you to know if you can do the question or whether you need to wait to cover the additional topic(s).

Scan the QR code(s) or click the link for instant detailed model solutions!

Qualification: GCSE Edexcel Higher

Areas: Measures

Subtopics: Bounds With Density Mass Volume, Bounds - Degrees Of Accuracy

Paper: Paper-2H-Calculator / Series: Sample-Set-1 / Difficulty: Very Hard / Question Number: 15

15 Here is a solid bar made of metal.

The bar is in the shape of a cuboid.

The height of the bar is h cm.

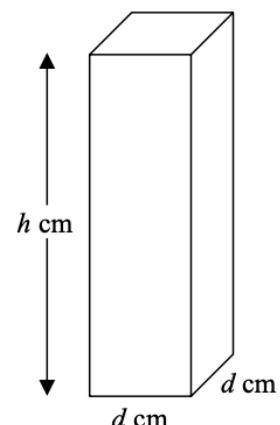
The base of the bar is a square of side d cm.

The mass of the bar is M kg.

$d = 8.3$ correct to 1 decimal place.

$M = 13.91$ correct to 2 decimal places.

$h = 84$ correct to the nearest whole number.



Find the value of the density of the metal to an appropriate degree of accuracy.

Give your answer in g/cm³.

You must explain why your answer is to an appropriate degree of accuracy.

(Total for Question 15 is 5 marks)

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Qualification: GCSE Edexcel Higher

Areas: Measures

Subtopics: Bounds With Density Mass Volume, 3D Shapes - Volume

Paper: Paper-2H-Calculator / Series: 2018-June / Difficulty: Very Hard / Question Number: 21

21 Jackson is trying to find the density, in g/cm^3 , of a block of wood.
The block of wood is in the shape of a cuboid.

He measures

the length as 13.2 cm, correct to the nearest mm
the width as 16.0 cm, correct to the nearest mm
the height as 21.7 cm, correct to the nearest mm

He measures the mass as 1970 g, correct to the nearest 5 g.

By considering bounds, work out the density of the wood.
Give your answer to a suitable degree of accuracy.

You must show all your working and give a reason for your final answer.

(Total for Question 21 is 5 marks)

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