

9 Here is a cuboid.



- 9 (a) Assume that the total surface area of the cuboid is 200 cm²

Work out the volume of the cuboid.

[3 marks]

Total surface area = Sum of the area of all the faces.

$$2 \times 5 \times 5 + 2 \times 5 \times y + 2 \times 5 \times y = 200$$

$$50 + 20y = 200$$

$$20y = 150$$

$$y = 7.5 \text{ cm}$$

Volume = $l \times w \times h$

$$= 7.5 \times 5 \times 5 = \underline{187.5 \text{ cm}^3}$$

Answer 187.5 cm³

- 9 (b) In fact, the total surface area of the cuboid is smaller than 200 cm²

What does this mean about the volume of the cuboid?

Tick one box.

[1 mark]



It is smaller than the answer to part (a)



It is bigger than the answer to part (a)



It is the same as the answer to part (a)



It could be any of the above

$$20y + 50 = 200 \downarrow$$

$$20y = 150 \downarrow$$

$$y = 7.5 \downarrow$$

$$v \downarrow = 5 \times 5 \times 7.5 \downarrow$$

Hence, Volume will be less than 187.5 cm^3

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1. Understanding the eBook Maths Past Papers Gcse Higher Linear
 - The Rise of Digital Reading Maths Past Papers Gcse Higher Linear
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Past Papers Gcse Higher Linear
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Past Papers Gcse Higher Linear
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Past Papers Gcse Higher Linear
 - Personalized Recommendations
 - Maths Past Papers Gcse Higher Linear User Reviews and Ratings
 - Maths Past Papers Gcse Higher Linear and Bestseller Lists
5. Accessing Maths Past Papers Gcse Higher Linear Free and Paid eBooks
 - Maths Past Papers Gcse Higher Linear Public Domain eBooks
 - Maths Past Papers Gcse Higher Linear eBook Subscription Services
 - Maths Past Papers Gcse Higher Linear Budget-Friendly Options

6. Navigating Maths Past Papers Gcse Higher Linear eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Past Papers Gcse Higher Linear Compatibility with Devices
 - Maths Past Papers Gcse Higher Linear Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Past Papers Gcse Higher Linear
 - Highlighting and Note-Taking Maths Past Papers Gcse Higher Linear
 - Interactive Elements Maths Past Papers Gcse Higher Linear
8. Staying Engaged with Maths Past Papers Gcse Higher Linear
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Past Papers Gcse Higher Linear
9. Balancing eBooks and Physical Books Maths Past Papers Gcse Higher Linear
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Past Papers Gcse Higher Linear
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Past Papers Gcse Higher Linear
 - Setting Reading Goals Maths Past Papers Gcse Higher Linear
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Past Papers Gcse Higher Linear
 - Fact-Checking eBook Content of Maths Past Papers Gcse Higher Linear
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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