

Upper and Lower Bounds Accuracy

19 $D = \frac{u^2}{2a}$

$u = 26.2$ correct to 3 significant figures

$a = 4.3$ correct to 2 significant figures

(a) Calculate the upper bound for the value of D .

N57 Give your answer correct to 6 significant figures.

You must show all your working.

$$26.2 \begin{cases} \nearrow 26.25 \\ \searrow 26.15 \end{cases}$$

$$4.3 \begin{cases} \nearrow 4.35 \\ \searrow 4.25 \end{cases}$$

$$D = \frac{26.25^2}{2(4.25)} \rightarrow \text{Big}$$

$$= 81.066176$$

$$81.0662$$

The lower bound for the value of D is 78.6003 correct to 6 significant figures.

(b) By considering bounds, write down the value of D to a suitable degree of accuracy.

You must give a reason for your answer.

N58

		1SF	2SF	
UB = 81.0662	80	81	X	
LB = 78.6003	80	79	X	80

Upper and Lower Bounds Accuracy

23 A race is measured to have a distance of 10.6 km, correct to the nearest 0.1 km.

Sam runs the race in a time of 31 minutes 48 seconds, correct to the nearest second.

N58

Sam's average speed in this race is V km/hour.

By considering bounds, calculate the value of V to a suitable degree of accuracy.

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

$$10.6 \text{ km} \begin{cases} \nearrow 10.65 \text{ km} \\ \searrow 10.55 \text{ km} \end{cases}$$

$$31 \text{ min } 48 \text{ sec} \begin{cases} \nearrow 31 \text{ min } 48.5 \text{ sec} \\ \searrow 31 \text{ min } 47.5 \text{ sec} \end{cases}$$

$$\text{Upper speed} = \frac{10.65 \text{ km}}{31 \text{ min } 47.5 \text{ sec}}$$

$$= 20.4960682 \text{ km/hr}$$

$$\text{Lower speed} = \frac{10.55 \text{ km}}{31 \text{ min } 48.5 \text{ sec}}$$

$$= 19.9100064 \text{ km/hr}$$

$$= 20 \text{ km/hr}$$

(Total for Question 23 is 5 marks)



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L Towne



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Table of Contents Gcse Maths Prediction 2paper 2

1. Understanding the eBook Gcse Maths Prediction 2paper 2
 - The Rise of Digital Reading Gcse Maths Prediction 2paper 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Maths Prediction 2paper 2
 - 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 Gcse Maths Prediction 2paper 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Maths Prediction 2paper 2
 - Personalized Recommendations
 - Gcse Maths Prediction 2paper 2 User Reviews and Ratings
 - Gcse Maths Prediction 2paper 2 and Bestseller Lists
5. Accessing Gcse Maths Prediction 2paper 2 Free and Paid eBooks
 - Gcse Maths Prediction 2paper 2 Public Domain eBooks
 - Gcse Maths Prediction 2paper 2 eBook Subscription Services
 - Gcse Maths Prediction 2paper 2 Budget-Friendly Options

6. Navigating Gcse Maths Prediction 2paper 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gcse Maths Prediction 2paper 2 Compatibility with Devices
 - Gcse Maths Prediction 2paper 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gcse Maths Prediction 2paper 2
 - Highlighting and Note-Taking Gcse Maths Prediction 2paper 2
 - Interactive Elements Gcse Maths Prediction 2paper 2
8. Staying Engaged with Gcse Maths Prediction 2paper 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcse Maths Prediction 2paper 2
9. Balancing eBooks and Physical Books Gcse Maths Prediction 2paper 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcse Maths Prediction 2paper 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcse Maths Prediction 2paper 2
 - Setting Reading Goals Gcse Maths Prediction 2paper 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcse Maths Prediction 2paper 2
 - Fact-Checking eBook Content of Gcse Maths Prediction 2paper 2
 - 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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