

A car, 4.4 metres long, has a fuel tank which holds 65 litres of fuel when full.  
 The fuel tank of a mathematically similar model of the car holds 0.05 litres of fuel when full.

Calculate the length of the model car in centimetres.

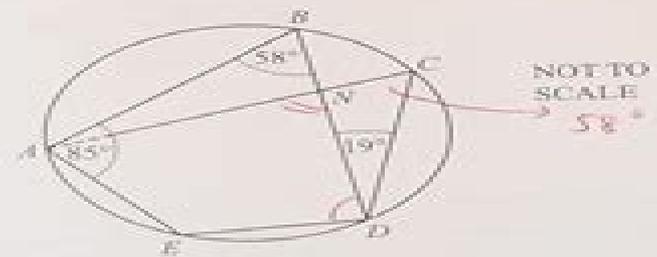
scale factor  $\left\{ \begin{array}{l} 4.4 \text{ m} \\ x \text{ m} \end{array} \right. \rightarrow$  volume factor  $\left\{ \begin{array}{l} 65 \text{ l} \\ 0.05 \text{ l} \end{array} \right.$

Volume factor =  $K^3 = \frac{65}{0.05} = 1300 \rightarrow K = \sqrt[3]{1300}$

$K = \frac{4.4 \text{ m}}{x \text{ cm}} = \frac{440}{x} \rightarrow x = \frac{440}{\sqrt[3]{1300}} = 40.3$

Answer 40.3 cm [3]

10



A, B, C, D and E are points on a circle.  
 Angle ABD = 58°, angle BAE = 85° and angle BDC = 19°.  
 BD and CA intersect at N.

Calculate

(a) angle BDE,

$180^\circ - 85^\circ = 95^\circ$

Answer(a) Angle BDE = 95° [1]

(b) angle AND.

$\hat{CND} = 180^\circ - 58^\circ - 19^\circ = 103^\circ$   
 $\hat{AND} = 180^\circ - 103^\circ = 77^\circ$

Answer(b) Angle AND = 77° [2]

[Turn over]

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## **Table of Contents Mathematics Paper 2 June 2013 Answers Foundation**

1. Understanding the eBook Mathematics Paper 2 June 2013 Answers Foundation
  - The Rise of Digital Reading Mathematics Paper 2 June 2013 Answers Foundation
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 2 June 2013 Answers Foundation
  - 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 Mathematics Paper 2 June 2013 Answers Foundation
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 2 June 2013 Answers Foundation
  - Personalized Recommendations
  - Mathematics Paper 2 June 2013 Answers Foundation User Reviews and Ratings
  - Mathematics Paper 2 June 2013 Answers Foundation and Bestseller Lists
5. Accessing Mathematics Paper 2 June 2013 Answers Foundation Free and Paid eBooks
  - Mathematics Paper 2 June 2013 Answers Foundation Public Domain eBooks
  - Mathematics Paper 2 June 2013 Answers Foundation eBook Subscription Services
  - Mathematics Paper 2 June 2013 Answers Foundation Budget-Friendly Options

6. Navigating Mathematics Paper 2 June 2013 Answers Foundation eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics Paper 2 June 2013 Answers Foundation Compatibility with Devices
  - Mathematics Paper 2 June 2013 Answers Foundation Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Paper 2 June 2013 Answers Foundation
  - Highlighting and Note-Taking Mathematics Paper 2 June 2013 Answers Foundation
  - Interactive Elements Mathematics Paper 2 June 2013 Answers Foundation
8. Staying Engaged with Mathematics Paper 2 June 2013 Answers Foundation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Paper 2 June 2013 Answers Foundation
9. Balancing eBooks and Physical Books Mathematics Paper 2 June 2013 Answers Foundation
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Paper 2 June 2013 Answers Foundation
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 2 June 2013 Answers Foundation
  - Setting Reading Goals Mathematics Paper 2 June 2013 Answers Foundation
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 2 June 2013 Answers Foundation
  - Fact-Checking eBook Content of Mathematics Paper 2 June 2013 Answers Foundation
  - 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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