

14

16 Here is a sphere.

Surface area of sphere =  $4\pi r^2$ 
 $\frac{3}{8}$  of the surface area of this sphere is  $75\pi \text{ cm}^2$ 

Find the diameter of the sphere.

Give your answer in the form  $a\sqrt{b}$  where  $a$  is an integer and  $b$  is a prime number.

$$\frac{3}{8} (4\pi r^2) = 75\pi$$

$$\frac{12}{8} \pi r^2 = 75\pi$$

$$\frac{12}{8} r^2 = 75$$

$$12r^2 = 600$$

$$r^2 = 50$$

$$r = \sqrt{50}$$

$$d = 2\sqrt{50}$$

$$= 2 \times \sqrt{25 \times 2}$$

$$= 10\sqrt{2}$$

$$\begin{array}{r} 4 \\ 75 \times \\ \hline 600 \end{array}$$

$$10\sqrt{2} \text{ cm}$$

(Total for Question 16 is 4 marks)

15

Turn over &gt;

17 Make  $x$  the subject of the formula:  $y = \frac{4(2x-3)}{3x+2}$ 

$$16x - 2x = 20$$

$$4x = 5$$

# Maths Gcse Edexcel 2013 Mark Scheme

**L Darling-Hammond**



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## **Table of Contents Maths Gcse Edexcel 2013 Mark Scheme**

1. Understanding the eBook Maths Gcse Edexcel 2013 Mark Scheme
  - The Rise of Digital Reading Maths Gcse Edexcel 2013 Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Gcse Edexcel 2013 Mark Scheme
  - 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 Gcse Edexcel 2013 Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Gcse Edexcel 2013 Mark Scheme
  - Personalized Recommendations
  - Maths Gcse Edexcel 2013 Mark Scheme User Reviews and Ratings
  - Maths Gcse Edexcel 2013 Mark Scheme and Bestseller Lists
5. Accessing Maths Gcse Edexcel 2013 Mark Scheme Free and Paid eBooks
  - Maths Gcse Edexcel 2013 Mark Scheme Public Domain eBooks
  - Maths Gcse Edexcel 2013 Mark Scheme eBook Subscription Services
  - Maths Gcse Edexcel 2013 Mark Scheme Budget-Friendly Options
6. Navigating Maths Gcse Edexcel 2013 Mark Scheme eBook Formats

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