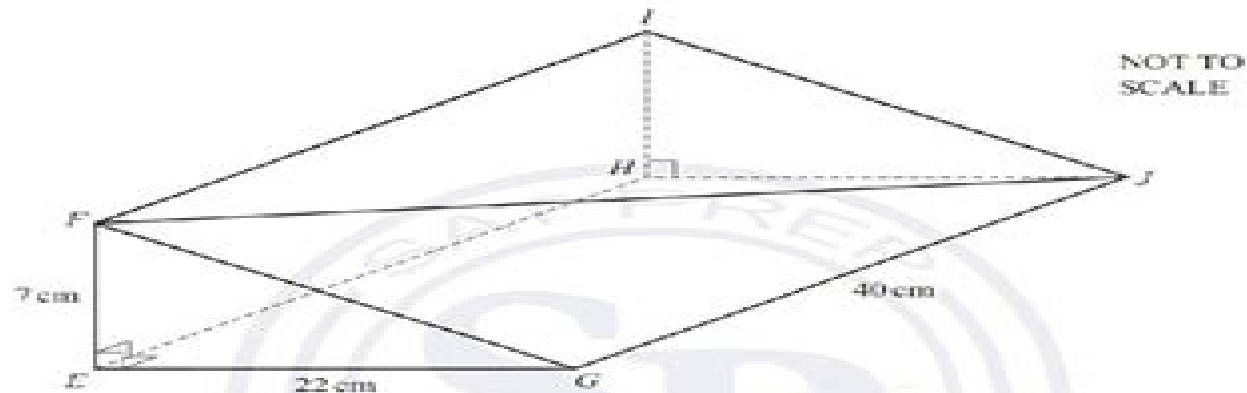


Extended Mathematics Topic :  
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 Questions

Question 1



$EFGHIJ$  is a solid metal prism of length 40 cm.  
 The cross section  $EFG$  is a right-angled triangle.  
 $EF = 7$  cm and  $EG = 22$  cm.

- (a) Calculate the volume of the prism.

Answer(a) ..... cm<sup>3</sup> [2]

- (b) Calculate the length  $FJ$ .

Answer(b)  $FJ =$  ..... cm [4]

- (c) Calculate the angle between  $FJ$  and the base  $EFGH$  of the prism.

Answer(c) ..... [3]

- (d) The prism is melted and made into spheres.  
 Each sphere has a radius 1.5 cm.

Work out the greatest number of spheres that can be made.

[The volume,  $V$ , of a sphere with radius  $r$  is  $V = \frac{4}{3}\pi r^3$ .]

Answer(d) ..... [3]

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**Sai Gopal Sunkara**



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## **Table of Contents Xtreme Igcse Math Paper 43 Winter 2013**

1. Understanding the eBook Xtreme Igcse Math Paper 43 Winter 2013
  - The Rise of Digital Reading Xtreme Igcse Math Paper 43 Winter 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Xtreme Igcse Math Paper 43 Winter 2013
  - 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 Xtreme Igcse Math Paper 43 Winter 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Xtreme Igcse Math Paper 43 Winter 2013
  - Personalized Recommendations
  - Xtreme Igcse Math Paper 43 Winter 2013 User Reviews and Ratings
  - Xtreme Igcse Math Paper 43 Winter 2013 and Bestseller Lists
5. Accessing Xtreme Igcse Math Paper 43 Winter 2013 Free and Paid eBooks
  - Xtreme Igcse Math Paper 43 Winter 2013 Public Domain eBooks
  - Xtreme Igcse Math Paper 43 Winter 2013 eBook Subscription Services
  - Xtreme Igcse Math Paper 43 Winter 2013 Budget-Friendly Options

6. Navigating Xtreme Igcse Math Paper 43 Winter 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Xtreme Igcse Math Paper 43 Winter 2013 Compatibility with Devices
  - Xtreme Igcse Math Paper 43 Winter 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Xtreme Igcse Math Paper 43 Winter 2013
  - Highlighting and Note-Taking Xtreme Igcse Math Paper 43 Winter 2013
  - Interactive Elements Xtreme Igcse Math Paper 43 Winter 2013
8. Staying Engaged with Xtreme Igcse Math Paper 43 Winter 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Xtreme Igcse Math Paper 43 Winter 2013
9. Balancing eBooks and Physical Books Xtreme Igcse Math Paper 43 Winter 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Xtreme Igcse Math Paper 43 Winter 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Xtreme Igcse Math Paper 43 Winter 2013
  - Setting Reading Goals Xtreme Igcse Math Paper 43 Winter 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Xtreme Igcse Math Paper 43 Winter 2013
  - Fact-Checking eBook Content of Xtreme Igcse Math Paper 43 Winter 2013
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
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