

# Mathematics

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(Chapter –11) (Surface Areas and Volumes) (Exercise 11.4)  
(Class – 9)

## Question 7:

Find the volume of a sphere whose surface area is  $154 \text{ cm}^2$ .

### Answer 7:

Surface area of sphere  $A = 154 \text{ cm}^2$

Let, the radius of sphere =  $r \text{ cm}$

We know that the surface area of sphere =  $4\pi r^2$

$$\Rightarrow 154 = 4 \times \frac{22}{7} \times r^2 \Rightarrow r^2 = \frac{154 \times 7}{22 \times 4} = \frac{49}{4}$$

$$\Rightarrow r = \sqrt{\frac{49}{4}} = \frac{7}{2}$$

Volume of sphere =  $\frac{4}{3}\pi r^3$

$$= \frac{4}{3} \times \frac{22}{7} \times \left(\frac{7}{2}\right)^3 = \frac{4}{3} \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times \frac{7}{2} = \frac{539}{3} = 179\frac{2}{3} \text{ cm}^3$$

Hence, the volume of sphere is  $179\frac{2}{3} \text{ cm}^3$ .

## Question 8:

A dome of a building is in the form of a hemisphere. From inside, it was white-washed at the cost of ₹498.96. If the cost of white-washing is ₹2.00 per square metre, find the

(i) inside surface area of the dome,

(ii) volume of the air inside the dome.

### Answer 8:

(i) Let the internal radius of dome =  $r \text{ m}$

Internal surface area of dome =  $2\pi r^2$

Cost of white washing at the rate of ₹2 =  $2\pi r^2 \times ₹2 = ₹4\pi r^2$

$$\Rightarrow ₹4\pi r^2 = ₹498.96$$

$$\Rightarrow 4 \times \frac{22}{7} \times r^2 = 498.96$$

$$\Rightarrow r^2 = \frac{498.96 \times 7}{4 \times 22} = 39.69$$

$$\Rightarrow r = \sqrt{39.69} = 6.3 \text{ m}$$

Therefore, the internal surface of dome =  $2\pi r^2$

$$= 2 \times \frac{22}{7} \times (6.3)^2$$

$$= 2 \times \frac{22}{7} \times 6.3 \times 6.3$$

$$= 2 \times 22 \times 0.9 \times 6.3$$

$$= 249.48 \text{ m}^2$$

Hence, the inside surface area of the dome is  $249.48 \text{ m}^2$ .

(ii) Volume of the air inside the dome =  $\frac{2}{3}\pi r^3$

$$= \frac{2}{3} \times \frac{22}{7} \times (6.3)^3$$

$$= \frac{2}{3} \times \frac{22}{7} \times 6.3 \times 6.3 \times 6.3$$

$$= 2 \times 22 \times 0.3 \times 6.3 \times 6.3$$

$$= 523.9 \text{ cm}^3$$

Hence, the volume of the air inside the dome is  $523.9 \text{ cm}^3$ .

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## **Table of Contents Ncert Class9 Maths 103**

1. Understanding the eBook Ncert Class9 Maths 103
  - The Rise of Digital Reading Ncert Class9 Maths 103
  - Advantages of eBooks Over Traditional Books
2. Identifying Ncert Class9 Maths 103
  - 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 Ncert Class9 Maths 103
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert Class9 Maths 103
  - Personalized Recommendations
  - Ncert Class9 Maths 103 User Reviews and Ratings
  - Ncert Class9 Maths 103 and Bestseller Lists
5. Accessing Ncert Class9 Maths 103 Free and Paid eBooks
  - Ncert Class9 Maths 103 Public Domain eBooks
  - Ncert Class9 Maths 103 eBook Subscription Services



- Ncert Class9 Maths 103 Budget-Friendly Options
- 6. Navigating Ncert Class9 Maths 103 eBook Formats
  - ePub, PDF, MOBI, and More
  - Ncert Class9 Maths 103 Compatibility with Devices
  - Ncert Class9 Maths 103 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ncert Class9 Maths 103
  - Highlighting and Note-Taking Ncert Class9 Maths 103
  - Interactive Elements Ncert Class9 Maths 103
- 8. Staying Engaged with Ncert Class9 Maths 103
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ncert Class9 Maths 103
- 9. Balancing eBooks and Physical Books Ncert Class9 Maths 103
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ncert Class9 Maths 103
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ncert Class9 Maths 103
  - Setting Reading Goals Ncert Class9 Maths 103
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ncert Class9 Maths 103
  - Fact-Checking eBook Content of Ncert Class9 Maths 103
  - 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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