



**Grade: 10 Mathematics**

**Surface Areas and Volumes –Worksheet**

1. If two cubes of edge 5 cm each are joined end to end then the surface area of the resulting cuboid will be:  
a)  $220 \text{ cm}^2$       b)  $230 \text{ cm}^2$       c)  $250 \text{ cm}^2$       d)  $210 \text{ cm}^2$
2. The height of a cone is 15 cm. If its volume is  $500\pi \text{ cm}^3$ , then the radius of its base is:  
a) 8 cm      b)  $10 \text{ cm}$       c) 12 cm      d) 20 cm
3. If the total surface area of a solid hemisphere is  $462 \text{ cm}^2$ , find its diameter is:  
a) 7 cm      b)  $14 \text{ cm}$       c) 6 cm      d) 12 cm
4. Assertion: The volume of two spheres are in the ratio 27: 8 then their surface areas are in the ratio 3: 2.  
Reason: Volume of sphere =  $\frac{4}{3}\pi r^3$  and its surface area is  $4\pi r^2$   
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).  
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).  
(c) Assertion (A) is true but Reason (R) is false.  
(d) Assertion (A) is false but Reason (R) is true.
5. A hemispherical depression is cut out from one face of a cubical block of side 7 cm, such that the diameter of the hemisphere is equal to the edge of the cube. Find the surface area of remaining solid. (Ans:  $332.5 \text{ cm}^2$ )
6. A wooden toy was made by scooping out a hemispherical of same radius from each end of a solid cylinder. If the height of the cylinder is 10 cm, and its base is of radius 3.5 cm, find the volume of wood in the toy. (Ans:  $205.33 \text{ cm}^3$ )
7. A solid is in the shape of a cone surmounted on a hemisphere, the radius of each of them being 3.5 cm and the total height of solid is 9.5 cm. Find the volume of the solid. (Ans:  $166.83 \text{ cm}^3$ )
8. A cubical block of side 10 cm is surmounted by a hemisphere. What is the largest diameter that the hemisphere can have? Find the cost of painting the total surface area of the solid so formed, at the rate of Rs 5 per 100 sq. cm (Ans: Rs 33.92)
9. From a solid cylinder of height 2.8 cm and diameter 4.2 cm, a conical cavity of the same height and same diameter is hollowed out. Find the total surface area and volume of the remaining solid. (Ans:  $73.92 \text{ cm}^2$ ,  $25.872 \text{ cm}^3$ )
10. A toy is in the shape of a solid cylinder surmounted by a conical top. If the height and diameter of the cylindrical part are 21 cm and 40 cm respectively,

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### **Table of Contents Caps Mathematic End Of Year Question Papper Gr10**

1. Understanding the eBook Caps Mathematic End Of Year Question Papper Gr10
  - The Rise of Digital Reading Caps Mathematic End Of Year Question Papper Gr10
  - Advantages of eBooks Over Traditional Books
2. Identifying Caps Mathematic End Of Year Question Papper Gr10
  - 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 Caps Mathematic End Of Year Question Papper Gr10
  - User-Friendly Interface
4. Exploring eBook Recommendations from Caps Mathematic End Of Year Question Papper Gr10
  - Personalized Recommendations
  - Caps Mathematic End Of Year Question Papper Gr10 User Reviews and Ratings
  - Caps Mathematic End Of Year Question Papper Gr10 and Bestseller Lists

5. Accessing Caps Mathematic End Of Year Question Papper Gr10 Free and Paid eBooks
  - Caps Mathematic End Of Year Question Papper Gr10 Public Domain eBooks
  - Caps Mathematic End Of Year Question Papper Gr10 eBook Subscription Services
  - Caps Mathematic End Of Year Question Papper Gr10 Budget-Friendly Options
6. Navigating Caps Mathematic End Of Year Question Papper Gr10 eBook Formats
  - ePub, PDF, MOBI, and More
  - Caps Mathematic End Of Year Question Papper Gr10 Compatibility with Devices
  - Caps Mathematic End Of Year Question Papper Gr10 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Caps Mathematic End Of Year Question Papper Gr10
  - Highlighting and Note-Taking Caps Mathematic End Of Year Question Papper Gr10
  - Interactive Elements Caps Mathematic End Of Year Question Papper Gr10
8. Staying Engaged with Caps Mathematic End Of Year Question Papper Gr10
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Caps Mathematic End Of Year Question Papper Gr10
9. Balancing eBooks and Physical Books Caps Mathematic End Of Year Question Papper Gr10
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Caps Mathematic End Of Year Question Papper Gr10
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Caps Mathematic End Of Year Question Papper Gr10
  - Setting Reading Goals Caps Mathematic End Of Year Question Papper Gr10
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Caps Mathematic End Of Year Question Papper Gr10
  - Fact-Checking eBook Content of Caps Mathematic End Of Year Question Papper Gr10
  - 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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