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Chapter—11

Mensuration



4. Area of a rhombus is 24 cm². If one of its diagonal is 6 cm then its perimeter is _____ cm.

_____ 20 _____

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- 5. A cylindrical tower is 5 m. in diameter and 14 m. high. Find the cost of painting its curved surface at ₹ 25 per m².
- 6. Volume of a cubical box is 512000 cm³. Find its surface area.
- 7. The ratio of radii of two spheres is 1 : 3
 - (a) What is the ratio of their volumes?
 - (b) What is the ratio of their surface areas?
- 8. Kiran daily goes for morning walk in a park. which is 65 m long and 40 m wide. How many metres she walks daily if she takes 4 rounds of the park?
- 9. Find the values of a, b, c, d, e and f.

S. No	Shape	Radius	Height	Volume	Total surface Area.		
1	Cylinder	11 cm.	14 cm.	<u>a</u>			
2	Cone	7 cm.	24 cm.	<u>b</u>	<u>e</u>		
3.	Sphere	21 cm.		<u>c</u>	<u>f</u>		

10. Find the area of shaded portion, if radii of two circles are 15 cm and 13 cm.



- 11. What is the perimeter of the figure.
- 12. Two cylinders have the same radii of bases if their heights are 15 cm and 25 cm, then find the ratio of their volumes.

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- 13. The internal dimensions of a hall are in the ratio 7:5:3. If the volume of the room is 2835 m³, then find the length of the hall.
- 14. Find the side of a cubical aquarium whose surface area is 48600 cm².
- **15.** Wheel of a cycle with diameter 56 cm. completes 100 revolutions to reach the destination. Find the total distance covered.

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1.	(a) False.	(b) True	(c)	True	(d)	False	(e)	True.	
2.	154 cm ²	2							
3.	(a) 42 cm ²	(b) 171 cm ²	(c)	69 cm ²	(d)	84 cm ²			
4.	20 cm *	20 cm *							
5.	₹ 5500								
6.	38400 cm ²								
7.	(a) 1:27	(b) 1:9							
8.	840 m								
9.	(a) 5324 cm ³	(b) 1232 cm ³							
	(c) 38808 cm ³	(d) $\frac{12100}{7}$ cm ² $\left(\text{or} 1728 \frac{4}{7} \right)$ cm ²							
10.	(e) 704 cm ² 176 cm ² .	(f) 5544 cm ²							

- 11. 56 cm.
- **12.** 3 : 5.
- 13. 21 m.
- 14. 90 cm.
- 15. 176 m. or 17600 cm.