

CHAPTER 12 REVIEW WORKSHEET

1. Find the volume of a rectangular solid with length 6 cm, width 5 cm, and height 12 cm.
2. Find the volume and the total area of a cube with edge $5a$.
3. A right triangular prism has height 15 and base edges 5, 12, and 13. Find the volume and the total area.
4. Find the volume of a cone with radius 4 and height 7.
5. Find the lateral area and the total area of the cone in Exercise 4.
6. Find the lateral area of a cylinder with radius 4 cm and height 6 cm.
7. A regular square pyramid has base edge 8 and lateral edge 6. Find the lateral area and the total area.
8. Find the area and the volume of a sphere with radius 6 cm.
9. Two similar regular triangular pyramids have total areas of 20 cm^2 and 80 cm^2 . Find the volume of the smaller pyramid if the volume of the larger one is 10 cm^3 .
10. The volumes of two spheres have a ratio of 27:64. Find the area of the larger sphere if the area of the smaller is 18.
11. The radii of two similar cylinders are 2 and 5. Find the ratio of their volumes and of their lateral areas.
12. Find the area of a sphere with volume 36π .
13. A cone with radius 5 cm has total area $90\pi \text{ cm}^2$. Find its height.
14. The volumes of two similar rectangular solids are 125 cm^3 and 64 cm^3 . Find the ratio of their base perimeters.

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			3)	4)	
			5)	6)	
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9)	10)	11)	12)	13)	14)