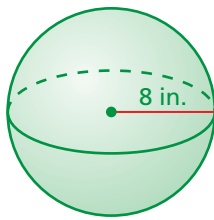


# 8.3–8.4 Quiz

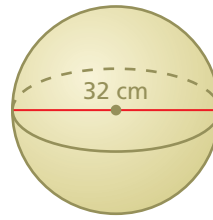


Find the volume of the sphere. Round your answer to the nearest tenth. (Section 8.3)

1.



2.

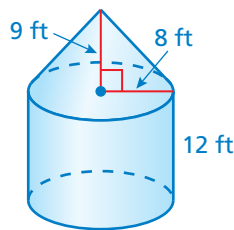


Find the radius of the sphere with the given volume. (Section 8.3)

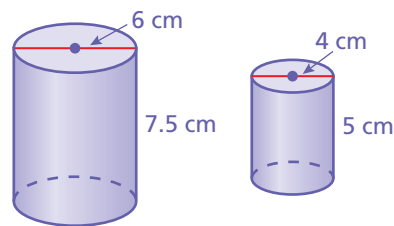
3. Volume =  $4500\pi \text{ yd}^3$

4. Volume =  $\frac{32}{3}\pi \text{ ft}^3$

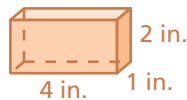
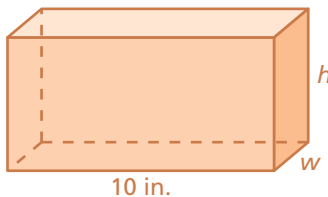
5. Find the volume of the composite solid. Round your answer to the nearest tenth. (Section 8.3)



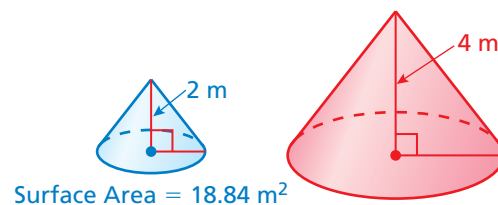
6. Determine whether the solids are similar. (Section 8.4)



7. The prisms are similar. Find the missing width and height. (Section 8.4)



8. The solids are similar. Find the surface area of the red solid. (Section 8.4)



9. **HAMSTER** A hamster toy is in the shape of a sphere. What is the volume of the toy? Round your answer to the nearest whole number. (Section 8.3)

10. **JEWELRY BOXES** The ratio of the corresponding linear measures of two similar jewelry boxes is 2 to 3. The larger box has a volume of 162 cubic inches. Find the volume of the smaller jewelry box. (Section 8.4)

11. **ARCADE** You win a token after playing an arcade game. What is the volume of the gold ring? Round your answer to the nearest tenth. (Section 8.3)

