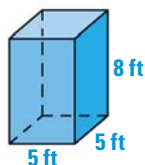


**EXAMPLE**

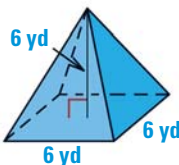
Find the volume of the solid.

a. Rectangular prism



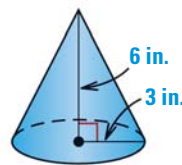
$$\begin{aligned} V &= Bh \\ &= 25(8) \\ &= 200 \text{ ft}^3 \end{aligned}$$

b. Regular pyramid



$$\begin{aligned} V &= \frac{1}{3}Bh \\ &= \frac{1}{3}(36)6 \\ &= 72 \text{ yd}^3 \end{aligned}$$

c. Cone

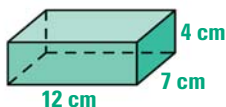


$$\begin{aligned} V &= \frac{1}{3}Bh \\ &= \frac{1}{3}\pi(3^2)(6) \\ &= 18\pi \text{ in.}^3 \\ &\approx 18(3.14) \approx 56.5 \text{ in.}^3 \end{aligned}$$

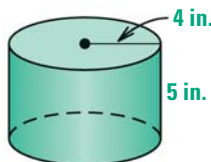
**PRACTICE**

Find the surface area and volume of the solid. For spheres, cylinders, and cones, give your answers in terms of  $\pi$  and as decimals rounded to the nearest tenth.

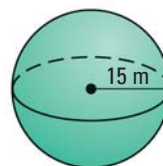
1. Rectangular prism



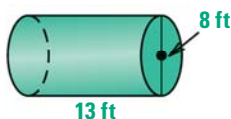
2. Cylinder



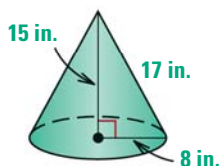
3. Sphere



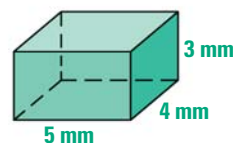
4. Cylinder



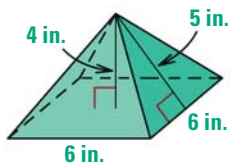
5. Cone



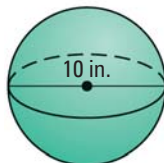
6. Rectangular prism



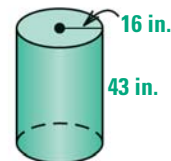
7. Regular pyramid



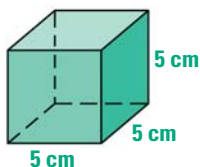
8. Sphere



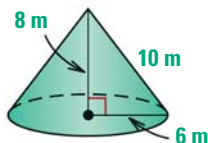
9. Cylinder



10. Rectangular prism



11. Cone



12. Regular pyramid

