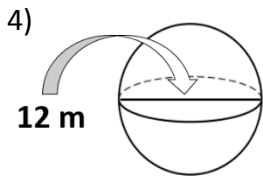
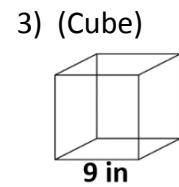
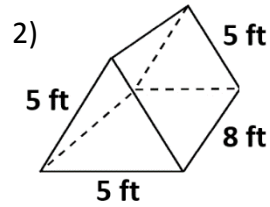
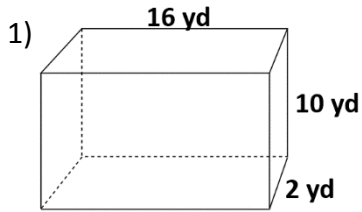
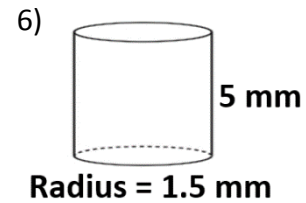
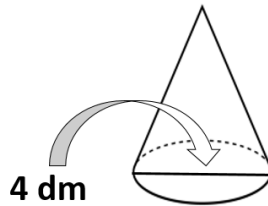


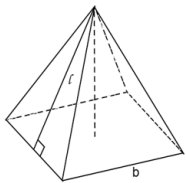
Directions: Find the volume of each shape with the given information.



5) The height is double the radius.

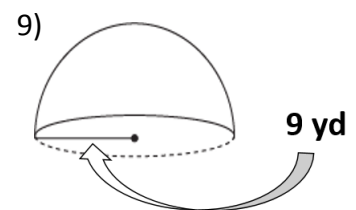
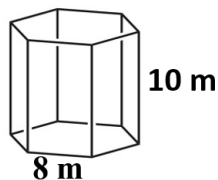


7) Regular Pyramid



$l = 13 \text{ ft}$   
 $b = 24 \text{ ft}$

8) Regular Prism



10) The volume of a ball is  $972\pi \text{ cm}^3$ . What is the circumference of the great circle of this ball to the nearest tenth?

11) The volume of the cylinder is  $552.9 \text{ in}^3$ . The diameter of this cylinder is 8 in. If the volume of the water is  $301.6 \text{ in}^3$ , what is the distance between the top of the water line to the top of the cylinder?



---

12) The circumference of the Earth is estimated to be about  $7920\pi$  miles. The diameter of the moon is estimated to be 2160 miles. How does the volume of the Earth compare to the volume of the moon?

---

13) A 4 in tall rectangular brick patio has an area of  $120 \text{ ft}^2$ . If the density of brick is 130 pounds per cubic foot, how many pounds is the weight of the patio?

---

14) A regular pentagonal prism has an apothem of 3 inches and a height of 5 inches. The apothem is increased by 3 feet and the height is doubled. What is the volume of the new prism?

---

15) Name the solids in order from the smallest volume to the largest volume.

