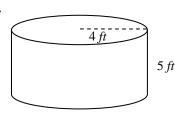
Lesson 4.6 ~ Volume of Cylinders

Name______Period_____

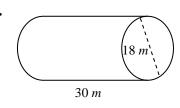
Date

Find the volume of each cylinder. Use 3.14 for π . Round answers to the nearest hundredth, if needed.

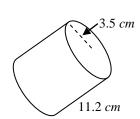
1.



2.



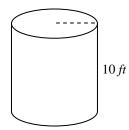
3.



- **4.** Sumo-Sumo Gas Company has a tanker-truck for hauling gasoline. The cylindrical tank has a diameter of 5.4 meters. The tank is 16 meters long. How many cubic meters of gas can the truck haul?
- **5.** Rita has a circular hot tub. The hot tub has a circumference of 25.12 feet. It is 3.5 feet deep.
 - **a.** Find the radius of the hot tub. Use 3.14 for π .
 - **b.** How much water can the hot tub hold?
 - **c.** The hot tub manual recommends filling the hot tub to 80% of its full capacity. How much water should Rita put in the hot tub in order to follow the recommendation?

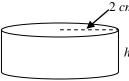
Find each missing measure. Use 3.14 for π .

6. Volume = $282.6 ft^3$ Radius \approx



7. $V = 12.56 \text{ cm}^3$

Height ≈ _____



8. A cylindrical bucket can hold approximately 301.44 *in*³. The height of the bucket is about 6 inches. What is the diameter of the bucket to the nearest inch?