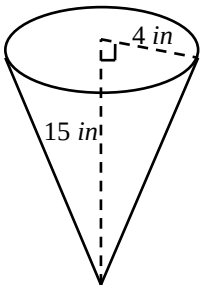
Lesson 4.7 ~ Volume of Cones

Name_____ Period_____ Date_____

Find the volume of each cone. Use 3.14 for π.

1.



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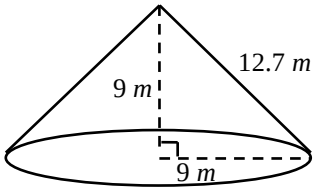
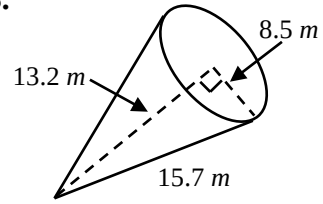


3.



4. A cone has a radius of 3 yards and height of 3.5 yards.

a. Find the volume of the cone.

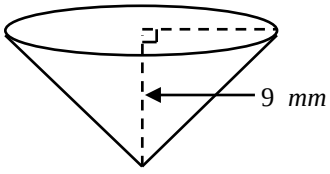
b. Find the volume of a cylinder with the same radius and height as the cone.

5. A snow cone cup is 12 *cm* tall and has a diameter of 8 *cm*. Find the volume of flavored ice that can be held inside the snow cone cup.

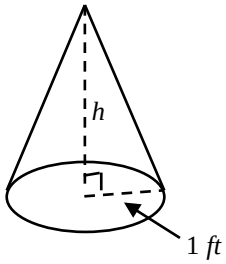
6. A cement truck malfunctioned causing all of the cement to be dumped all at one time. The pile of cement was in the shape of a cone. It had a radius of 12 feet and a height of 2 feet. How much cement spilled?

Find each missing measure. Use 3.14 for π.

7. Volume ≈ 602.88 mm^3
Radius ≈ _____



8. Volume = 15.7 ft^3
Height of the cone ≈ _____



9. A conveyor belt dumps gravel into conical piles. Kevin measured the height of one pile of gravel. It was $10\frac{1}{2}$ feet tall. The volume of the pile was 77 cubic feet. Find the diameter of the pile of gravel. Round the answer to the nearest hundredth.