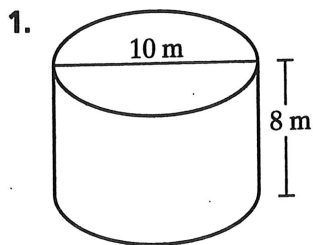


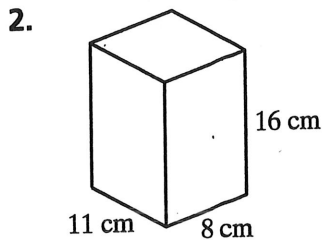
# Practice 10-7

## Volume: Prisms and Cylinders

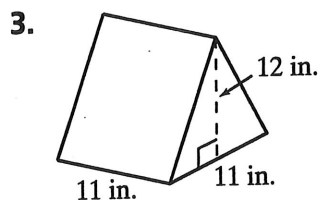
Find the volume of each prism or cylinder to the nearest cubic unit.



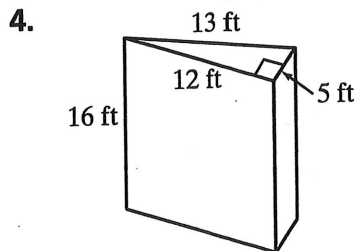
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\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

5. prism  
rectangular base:  
8 in. by 6 in.  
height: 7 in.

\_\_\_\_\_

6. cylinder  
radius: 14 in.  
height: 18 in.

\_\_\_\_\_

7. prism  
square base:  
3.5 ft on a side  
height: 6 ft

\_\_\_\_\_

8. cube  
sides: 13 m

\_\_\_\_\_

9. A water storage tank has a cylindrical shape. The base has a diameter of 18 m and the tank is 32 m high. How much water, to the nearest cubic unit, can the tank hold?

\_\_\_\_\_

10. A tent in the shape of a triangular prism has a square base with a side of 8 feet and a height of 6 feet. What is the volume of the tent?

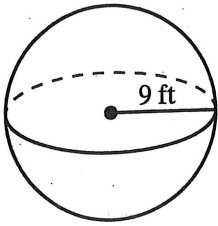
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# Practice 10-9

## Volume: Pyramids, Cones, and Spheres

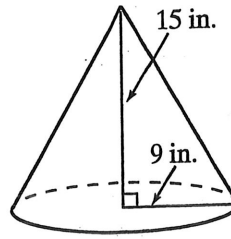
Find the volume of each figure to the nearest cubic unit. Use  $\pi \approx 3.14$ .

1.



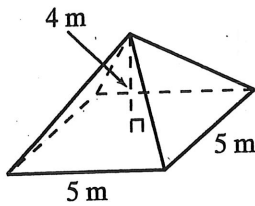
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2.



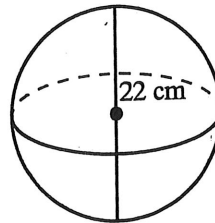
\_\_\_\_\_

3.



\_\_\_\_\_

4.



\_\_\_\_\_

5. square-based pyramid  
 $s = 9$  in.  
 $h = 12$  in.

\_\_\_\_\_

6. cone  
 $r = 8$  cm  
 $h = 15$  cm

\_\_\_\_\_

7. You make a snow figure using three spheres with radii of 12 in., 10 in., and 8 in., with the biggest on the bottom and the smallest for the head. You get snow from a rectangular area that is 6 ft by 7 ft. Find the volume of snow in your snow figure to the nearest hundredth of a cubic inch.

bottom: \_\_\_\_\_

middle: \_\_\_\_\_

head: \_\_\_\_\_

total: \_\_\_\_\_