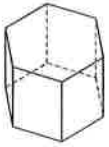


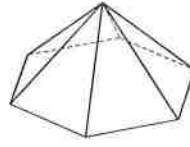
Chapter 11 Test Review

Name each figure.

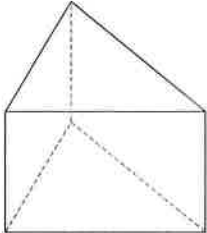
1)



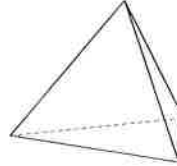
2)



3)

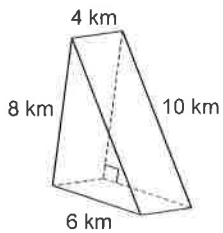


4)

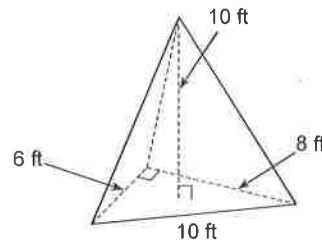


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

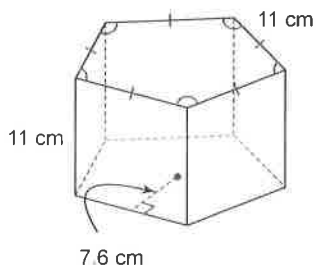
5)



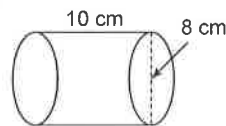
6)



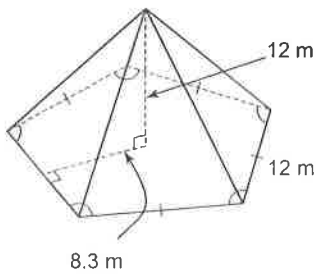
7)



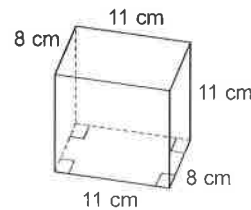
8)



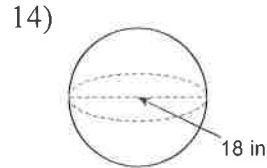
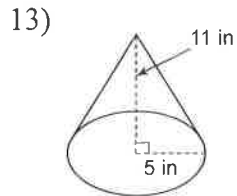
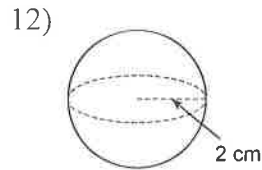
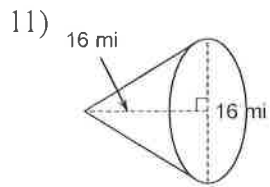
9)



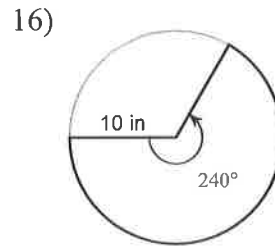
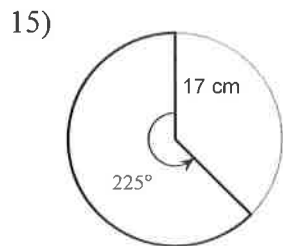
10)



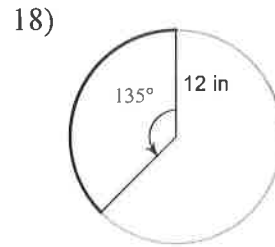
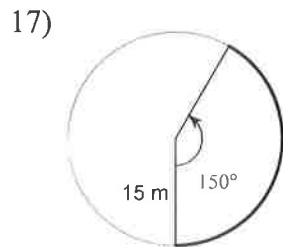
Find the surface area AND volume of each figure. Leave your answers in terms of pi.



Find the area of each sector. Leave your answers in terms of pi.



Find the length of each arc. Leave your answers in terms of pi.



Convert each measure from degrees to radians.

19) 270°

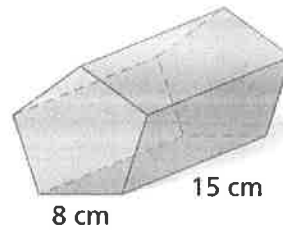
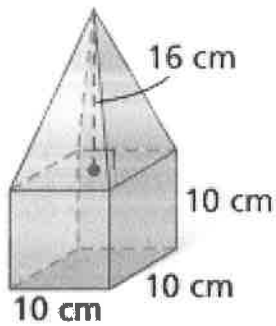
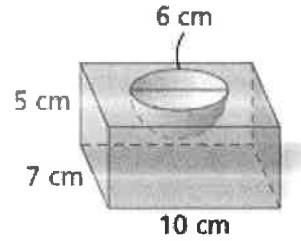
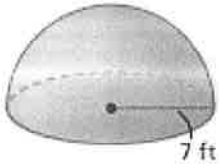
20) 45°

Convert each measure from radians to degrees.

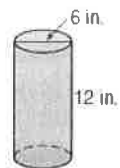
21) $\frac{\pi}{3}$

22) $\frac{2\pi}{9}$

23. Find the volume of each figure.



24. A cylindrical juice container has the dimensions shown. About how many cups of juice does this container hold? (Hint: $1 \text{ cup} \approx 1.44 \text{ in}^3$)

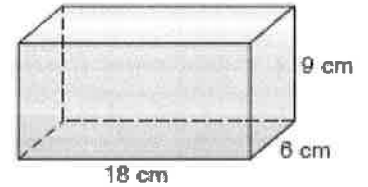


25. The radius of a cone is 9 cm. The volume of the cone is $324\pi \text{ cm}^3$. What is the height of the cone?

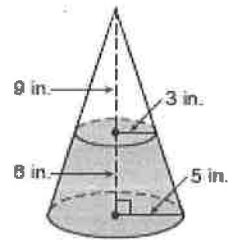
26. The surface area of a rectangular prism is multiplied by 64. What has been done to the dimensions of the figure?

27. A sphere has a radius of 6 cm. A right cylinder, having the same radius, has the same volume. Find the height of the cylinder.

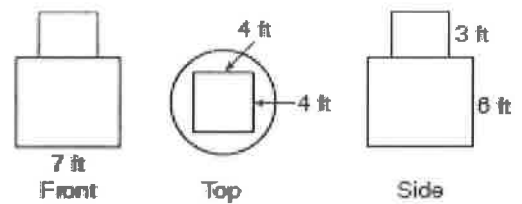
28. How many cubes with 3-inch sides can be placed inside the box?



29. Find the volume of the shaded region. Leave your answer in terms of pi.



30. What is the volume of the composite figure with the dimensions shown in these three views? Round to the nearest tenth.



31. Given that 1 fluid oz is about 1.805 in^3 , approximately how many fluid ounces of water can a cylinder with radius of 2 inches and height of 3 inches hold?