

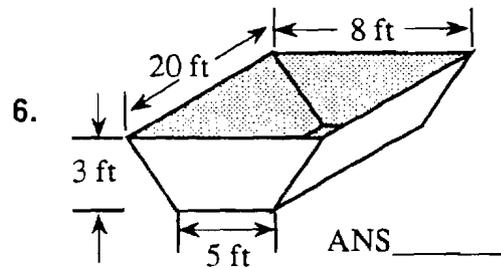
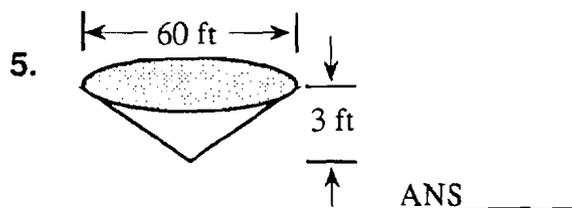
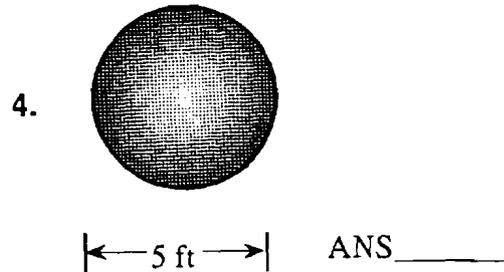
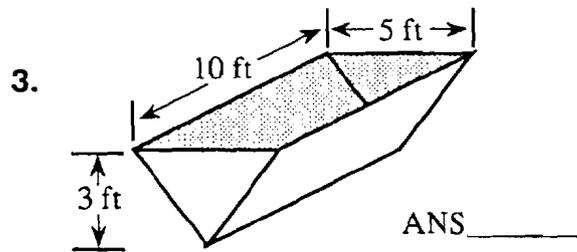
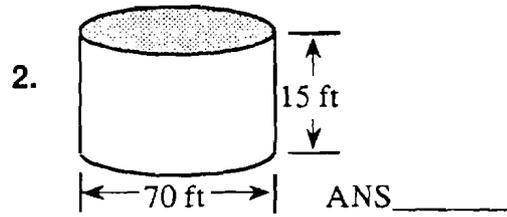
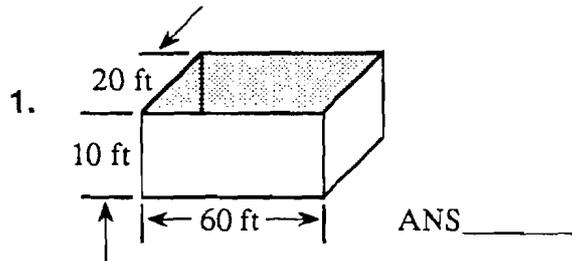


Volumes - Sample Questions

*The Division of Water Quality
makes no claim as the accuracy of
any answers provided herein.*

PRACTICE PROBLEMS 11.1: Volumes—Basic Shapes

□ Calculate the cubic feet volume of the figures shown below:



PRACTICE PROBLEMS 11.1: Volumes—Basic Shapes (Continued)

□ Complete the following problems, as indicated.

7. A clarifier has a diameter of 50 ft. If the depth of water in the clarifier is 15 ft, how many cubic feet of water are in the clarifier?

ANS _____

8. A rectangular basin 25 ft wide and 75 ft long contains 28,125 cubic feet of water. What is the depth of the water in the tank?

ANS _____

9. The bottom portion of a tank is a triangular prism. If the base of the triangle is 20 ft, the depth of the triangular part of the tank is 3 ft and the length of the tank is 60 ft, how many cubic feet of water will this triangular portion hold?

ANS _____

10. What is the cubic feet capacity of a 2000-ft section of 18-inch-diameter pipe?

ANS _____

PRACTICE PROBLEMS 11.2: Volumes—Combined Shapes

□ Calculate the cubic feet volume of the figures shown below.

