

Chapter 3 Test

For #1 to #7, select the best answer.

1. Which of the following is part of a triangular prism?
A prism
B rectangle
C circle
D cone
2. Which volume is closest to that of a 5-gallon aquarium?
A 5 litres
B 1000 mL
C 20 litres
D 2.2 litres
3. Which imperial area is equivalent to 1 square metre?
A 35.3 sq. ft
B 10.8 sq. ft
C 144 sq. inches
D 12 square inches
4. What is the approximate volume of a tennis ball that has a diameter of 6.5 cm?
A 25 cc
B 40 cc
C 50 cc
D 140 cc
5. A shoe box measures 1 ft \times 5 in. \times 6 in. What is the volume of the box in cubic feet?
A 0.02
B 0.2
C 2.0
D 2.1
6. Which statement below best describes the relationship between the capacity and the volume of a bathtub?
A Capacity equals volume.
B Capacity is always greater than volume.
C Capacity is always less than volume.
D It depends on how much water is in the bathtub.
7. What is the surface area of a cube that has a side length of 8 in.?
A 16 square inches
B 24 square inches
C 64 square inches
D 384 square inches
8. How many pints of ice cream are in 2 gallons?
9. The capacity of a swimming pool is 90% of its volume.
a) If the average depth is 1.5 m, the length is 20 m, and the width is 15 m, how much water does the pool hold?
b) If the pool is filled at a rate of 3000 gallons per hour, how long does it take to reach the pool's capacity?
10. A steak and lobster dinner includes an 8-oz steak and 4 oz of lobster. The restaurant owner wants to advertise the weights in the menu in pounds. Determine the appropriate weights for the owner.

