

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.

