

Name: _____

Date: _____

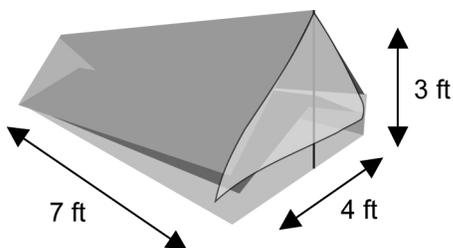
Chapter 9 Practice Test

Multiple Choice

- The volume of a cube with sides 4 cm long is
A 12 cm^2 B 12 cm^3
C 64 cm^2 D 64 cm^3
- The surface area of a cylinder with radius 2 cm and height 6 cm is
A 75.4 cm^2 B 75.4 cm^3
C 100.5 cm^2 D 100.5 cm^3
- When the sides of a rectangular prism are doubled in length, the volume is
A two times the volume of the original prism
B four times the volume of the original prism
C six times the volume of the original prism
D eight times the volume of the original prism
- The volume of a cylinder with radius 3 ft and height 9 ft is
A 254.3 ft^3 B 28.3 ft^3
C 28.3 ft^3 D 265.4 ft^3

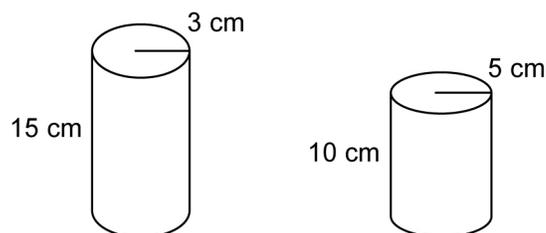
Short Response

- A cube has side length 7 in. A rectangular prism has length 6 in, width 6 in, and height 8 in.
a) Which object has greater volume? Show your work.
b) Which object has greater surface area? Show your work.
- Billy's tent is in the shape of a triangular prism.

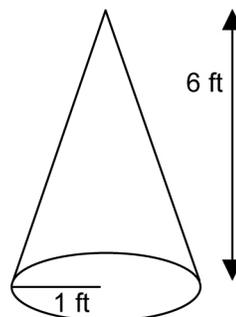


- What is the volume of the tent?
- How much material was used to make the tent, including the floor?

- Betty is at the grocery store to buy some soup. There are two sizes of cans.



- Find the volume of each can.
 - The taller can costs \$0.99 and the shorter can costs \$1.49. Which can is the best buy? Explain your answer.
- a) Find the volume of this cone.



- The volume of a sphere is one-third the volume of this cone. Find the radius of the sphere.

Extended Response

- Pat made a pot of chicken noodle soup. How many ladles of soup are in the pot if the surface of the soup is 1 in. from the rim of the pot?

