



Volume

CA Standards
AF 1.4, MG 3.0

Solve each problem.

- 1.** Which is the greater volume: 3 ft^3 or 3 yd^3 ? Write your answer as a mathematical sentence.

- 3.** Is it possible for two rectangular prisms to have the same volume but different measurements? Give an example to justify your answer.

- 5.** Evie used 25 1-inch cubes to make one face of a rectangular prism. The prism has a volume of 100 cubic inches. What are its dimensions?

- 2.** A rectangular prism has a volume of 45 cubic feet. One face has an area of 15 square feet. What is the height of the prism? Explain your answer.

- 4.** Julie used 48 cubes to make a rectangular prism. The prism is 6 cubes high. What are the four possibilities for its length and width?

- 6.** Terrance needs to order a shipping carton. He wants the shipping carton to hold 6 dozen Pet Rocks. The Pet Rocks are in boxes that are 1-inch cubes. What size shipping carton should he order?

