Mid-Chapter Check

Vocabulary Check



1. Be Precise Define three-dimensional figure. Give an example of a figure that is a three-dimensional figure and an example of a figure that is not a three-dimensional figure. (Lesson 1)

A three-dimensional figure is a solid figure that has length, width, and

height. Sample answer: rectangular prism; rectangle

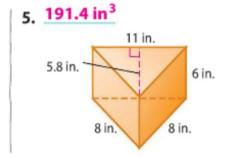
Fill in the blanks in the sentences below with the correct terms. (Lesson 1)

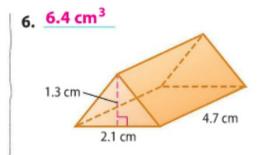
- 2. Volume is the amount of space inside a three-dimensional figure.
- 3. Volume is measured in cubic units.

Skills Check and Problem Solving

Find the volume of each prism. Round to the nearest tenth if necessary. (Lessons 1 and 2)

4. 4.2 in³
1 in.
3 in.





Find the missing dimension of each figure. (Lessons 1 and 2)

7. rectangular prism: $V = 80 \text{ m}^3$; length = 5 m; width = 4 m $h = \frac{4 \text{ m}}{}$ 8. triangular prism: V = 42 cm³; base length = 2 cm; base height = 6 cm
h = 7 cm

9. Persevere with Problems Janet is mailing a candle that is in the shape of a triangular prism as shown. She put the candle in a rectangular box that measures 3 inches by 5 inches by 7 inches and places foam pieces around the candle. Find the volume of the foam pieces needed to fill the space between the candle and the box. (Lesson 2) 85.5 in³

