Name _____ Date _____ Period _____

Lesson 5-5 · Apply Day

Reinforce Understanding

Missing and Fractional Edges

I can find the volume of a rectangular prism with whole-number edges using length × width × height.

Worked model

A box has a volume of 336 in^3. It is 8 in. wide and 6 in. tall. Find its length.

1. Substitute what you know. V = l × w × h → 336 = l × 8 × 6
2. Multiply the two edges you already know. 8 × 6 = 48
3. Divide the volume by that product. 336 ÷ 48 = 7

Answer: The length of the box is 7 inches.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Find the volume of a new prism with dimensions 5 by 3 by 2.

Complete each step, then write the final answer.

1. Base area: 5 × 3 = ___.
2. Volume: 15 × 2 = ___.
3. Label the answer in ___ units.

Answer: _____

2. Find the volume of a new prism with dimensions 6 by 5 by 5.

Complete each step, then write the final answer.

1. Base area: 6 × 5 = ___.
2. Volume: 30 × 5 = ___.
3. Label the answer in ___ units.

Answer: _____

3. Find the volume of a new prism with dimensions 7 by 7 by 3.

Complete each step, then write the final answer.

1. Base area: 7 × 7 = ___.
2. Volume: 49 × 3 = ___.
3. Label the answer in ___ units.

Answer: _____