LESSON 5.4
**More Practice/
Homework**

ONLINE
Video Tutorials and
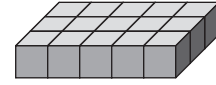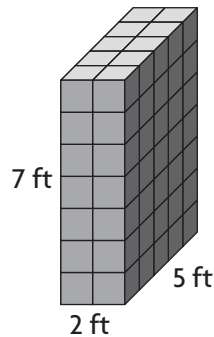Interactive Examples

Find Volume of Right Rectangular Prisms

1 One layer of 1-inch cubes is shown. If 9 layers are stacked, what is the volume of the right rectangular prism formed by the stack?
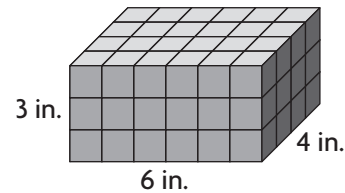
_____

2 **Math on the Spot** Rich is building a travel crate for his dog, Thomas, a beagle-mix who is about 28 inches long, 14 inches wide, and 22 inches tall. For Thomas to travel safely, his crate needs to be a rectangular prism that is about 12 inches greater than his length and width and 6 inches greater than his height. What is the volume of the travel crate that Rich should build?

_____

_____

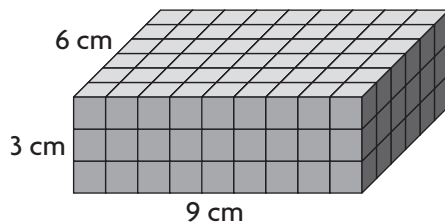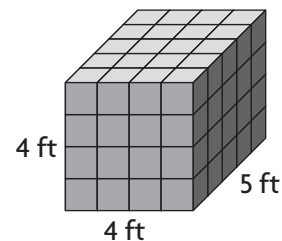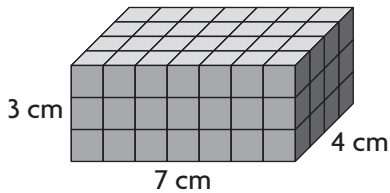**Find the volume.**

3

7 ft

5 ft

2 ft

4

3 in.

4 in.

6 in.

5

6 cm

3 cm

9 cm

6

4 ft

5 ft

4 ft

Test Prep

7 What is the volume of the right rectangular prism?

3 cm

4 cm

7 cm

_____

8 Select the volume for each set of dimensions of a right rectangular prism.

	36 cu in.	54 cu in.	72 cu in.
length: 6 in. width: 2 in. height: 3 in.	☐	☐	☐
length: 9 in. width: 3 in. height: 2 in.	☐	☐	☐
length: 4 in. width: 3 in. length: 6 in.	☐	☐	☐
length: 4 in. width: 3 in. length: 3 in.	☐	☐	☐

Spiral Review

9 Write a numerical expression to match the words.

Illana has 16 test tubes that she prepares for the science lab. She breaks 2 test tubes. She gives the rest out equally to the 7 lab groups.

_____

10 How many cubes are used to make the figure?

_____