

## **1-4** Additional Practice

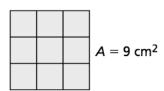


Edge length

in.

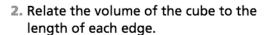
Leveled Practice In 1 and 2, evaluate the square root or cube root.

1. Relate the area of the square to the length of each side.



Side length Side length cm cm  $\sqrt{9} =$ 

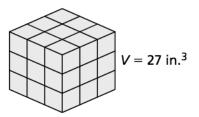
3. Ms. Lu is adding a new room to her house. The room will be a cube with volume 4,913 cubic feet. What is the length of the new room?



Edge length

in.

of one edge of the box?



Edge length

4. The volume of a box for earrings is 216 cubic centimeters. What is the length

- 5. The area of a square garage is 121 square feet. Will it fit a car that measures 13 feet long? Explain.
- 6. Nadia wants to enclose a square garden with fencing. It has an area of 141 square feet. To the nearest foot, how much fencing will she need? Explain.

- 7. Benjamin rents a storage unit that is shaped like a cube. There are 12 identical storage units in each row of the facility. If each storage unit has a volume of 125 cubic feet, what is the length of each row in the facility?
- **8.** Would you classify the number 55 as a perfect square, as a perfect cube, both, or neither? Explain.

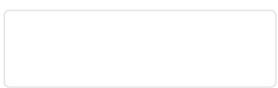
- 9. Critique Reasoning Clara says that if you square the number 4 and then divide the result by 2, you end up with 4. Is Clara correct? Explain.
- 10. Higher Order Thinking A fish tank at an aquarium has a volume of 1,568 cubic feet and a depth of 8 feet. If the base of the tank is square, what is the length of each side of the tank?

## (S) Assessment Practice

- 11. Which expression has the least value?
  - (A)  $\sqrt{81} \cdot 2$
  - ®  $\sqrt{81} \sqrt{25}$
  - ©  $\sqrt{64} + \sqrt{25}$
  - ①  $\sqrt{64} 3$
- 12. On a math test, Ana writes 9 as the solution to  $\sqrt[3]{27}$ .

PART A

Find the correct solution.



**PART B** 

What error did Ana likely make on the test?

- Ana cubed 27.
- ® Ana divided 27 by 3.
- © Ana multiplied 27 by 3.
- Ana cubed 3.