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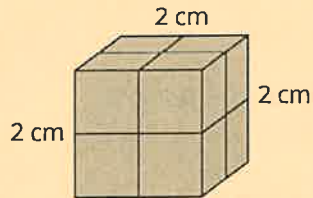
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Unit 1, Lesson 17

Practice Problems

1. What is the volume of this cube?



2. a. Decide if each number on the list is a perfect square.

- A. 16 E. 125
B. 20 F. 144
C. 25 G. 225
D. 100 H. 10,000

- b. Write a sentence that explains your reasoning.

3. a. Decide if each number on the list is a perfect cube.

- A. 1 E. 27
B. 3 F. 64
C. 8 G. 100
D. 9 H. 125

- b. Explain what a perfect cube is.

4. a. A square has side length 4 cm. What is its area?
b. The area of a square is 49 m^2 . What is its side length?
c. A cube has edge length 3 in. What is its volume?

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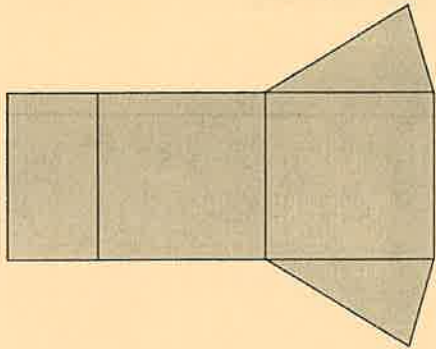
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5. Prism A and Prism B are rectangular prisms. Prism A is 3 inches by 2 inches by 1 inch.
Prism B is 1 inch by 1 inch by 6 inches.

Select **all** statements that are true about the two prisms.

- A. They have the same volume.
- B. They have the same number of faces.
- C. More inch cubes can be packed into Prism A than into Prism B.
- D. The two prisms have the same surface area.
- E. The surface area of Prism B is greater than that of Prism A.

6. a. What polyhedron can be assembled from this net?



- b. What information would you need to find its surface area? Be specific, and label the diagram as needed.

7. Find the surface area of this triangular prism. All measurements are in meters.

