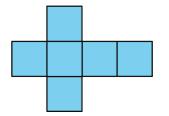


Lesson 18 Practice Problems

1. a. What is the volume of a cube with edge length 8 in?

b. What is the volume of a cube with edge length $\frac{1}{3}$ cm?

- c. A cube has a volume of 8 ft³. What is its edge length?
- 2. a. What three-dimensional figure can be assembled from this net?

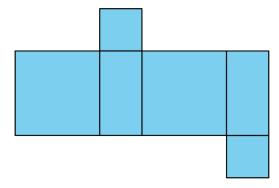


- b. If each square has a side length of 61 cm, write an expression for the surface area and another for the volume of the figure.
- 3. a. Draw a net for a cube with edge length *x* cm.

- b. What is the surface area of this cube?
- c. What is the volume of this cube?



4. Here is a net for a rectangular prism that was not drawn accurately.



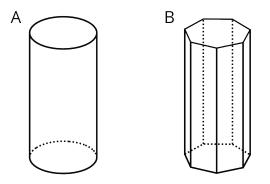
- a. Explain what is wrong with the net.
- b. Draw a net that can be assembled into a rectangular prism.

c. Create another net for the same prism.

(From Unit 1, Lesson 14.)

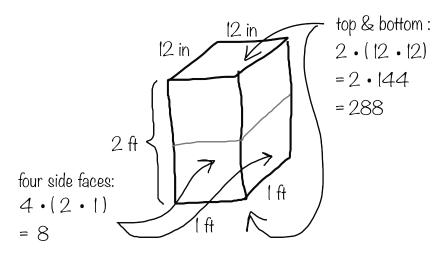


5. State whether each figure is a polyhedron. Explain how you know.



(From Unit 1, Lesson 13.)

6. Here is Elena's work for finding the surface area of a rectangular prism that is 1 foot by 1 foot by 2 feet.



She concluded that the surface area of the prism is 296 square feet. Do you agree with her? Explain your reasoning.

(From Unit 1, Lesson 12.)