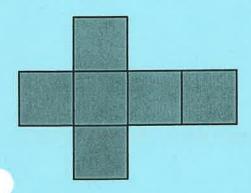
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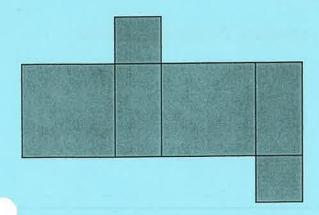
## Unit 1, Lesson 18: Surface Area of a Cube

- 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 ft<sup>3</sup>. 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.

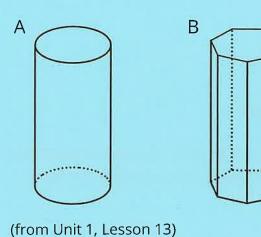
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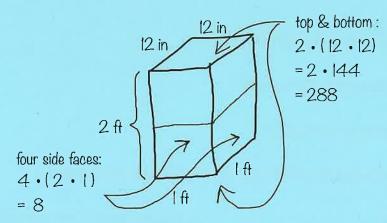
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(from Unit 1, Lesson 14)

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



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 conclusion? Explain your reasoning.

(from Unit 1, Lesson 12)