### Lesson 12 Practice Problems

* 1. What is the volume of a cube with edge length 8 in?
	2. What is the volume of a cube with edge length $\frac{1}{3}$ cm?
	3. A cube has a volume of 8 ft3. What is its edge length?
	4. What three-dimensional figure can be assembled from this net?
	+ 
	1. 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.
	2. Draw a net for a cube with edge length $x$ cm.
	3. What is the surface area of this cube?
	4. What is the volume of this cube?
1. Here is a net for a rectangular prism that was not drawn accurately.
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	1. Explain what is wrong with the net.
	2. Draw a net that can be assembled into a rectangular prism.
	3. Create another net for the same prism.
* (From Unit 1, Lesson 11.)
1. State whether each figure is a polyhedron. Explain how you know.
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* (From Unit 1, Lesson 11.)
1. Here is Elena’s work for finding the surface area of a rectangular prism that is 1 foot by 1 foot by 2 feet.
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* 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 10.)



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