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## Lesson 2 Problem-Solving Practice

## Volume of Triangular Prisms

1. TOY BLOCKS A set of wooden blocks includes a triangular prism like the one shown below. Find the volume of the block. 14 cm $^{3}$

2. CLAY A potter crafts a triangular prism out of clay. The height of the clay prism is 9 centimeters. Each triangle has a base of 12 centimeters and a height of 4 centimeters. What is the volume of the clay piece? 216 cm $^{3}$
3. RAMP The base of a bicycle ramp has an area of 4 square feet. The ramp is a triangular prism. If the ramp has a height of $2 \frac{1}{2}$ feet, what is the volume of the ramp? $10 \mathrm{ft}^{3}$
4. CABIN An A-frame cabin is built in the shape of a triangular prism, as shown. The front wall of the cabin has a length of 9 meters and a height of 7 meters. The cabin is 13 meters deep. Find the volume of the cabin. $409.5 \mathrm{~m}^{3}$

5. SANDBOX Mr. Riojas is building his children a sandbox that is shaped like a triangular prism. He uses 7 -foot-long wooden beams for each side of the base. He measures the height of the triangular base to be 6.1 feet. If he makes the sandbox 1 foot tall, how much sand will he need to fill it? Round to the nearest cubic foot. $21.4 \mathrm{ft}^{3}$
