1. What is the volume of the figures pictured below?
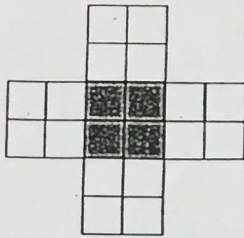
a.

b.
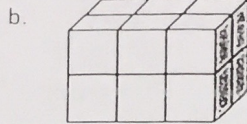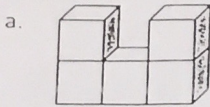
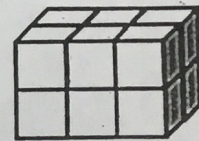1. If this figure were to be folded into a box, how many cubes would fill it?

Number of cubes: _____

1. Use unit cubes to build the figure to the right, and fill in the missing information.

Number of layers: _____

Number of cubes in each layer: _____
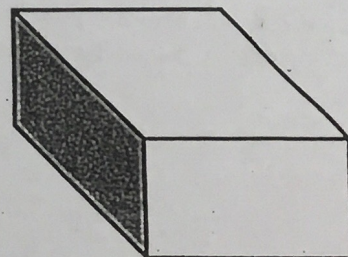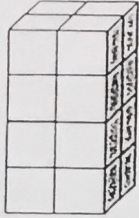
Volume: _____ cubic centimeters

2. This prism measures 3 units by 4 units by 2 units. Draw the layers as indicated.

Number of layers: 4

Number of cubic units in each layer: 6

Volume: _____ cubic centimeters

Length: _____ mm

Width: _____ mm

Height: _____ mm

Volume: _____ mm^3

Write the multiplication sentence that shows how you calculated the volume. Be sure to include the units.

2. A rectangular prism has a top face with an area of 20 ft^2 and a height of 5 ft. What is the volume of this rectangular prism?

A storage shed is a rectangular prism and has dimensions of 6 meters by 5 meters by 12 meters. If Jean were to double these dimensions, she believes she would only double the volume. Is she correct? Explain why or why not. Include a drawing in your explanation.