

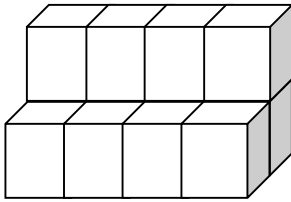


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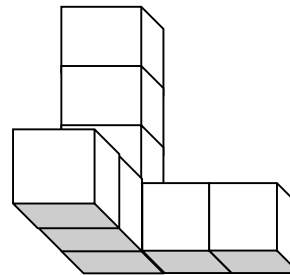
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1. Tell the volume of each solid figure made of 1-inch cubes. Specify the correct unit of measure.

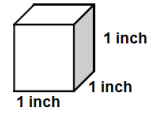
a.



b.

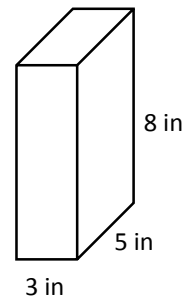


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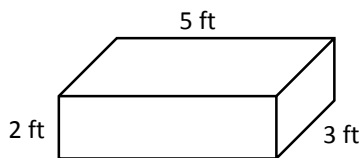


2. Jack found the volume of the prism pictured to the right by multiplying 5×8 and then adding $40 + 40 + 40 = 120$. He says the volume is 120 cubic inches.

a. Jill says he did it wrong. He should have multiplied the bottom first (3×5) and then multiplied by the height. Explain to Jill why Jack's method works and is equivalent to her method.

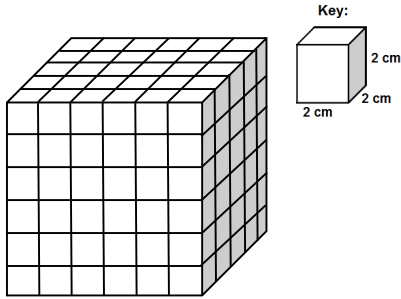


b. Use Jack's method to find the volume of this right rectangular prism.



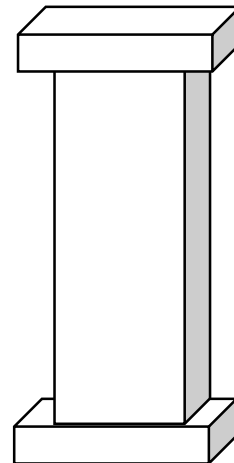


3. If the figure below is made of cubes with 2 cm side lengths, what is its volume? Explain your thinking.



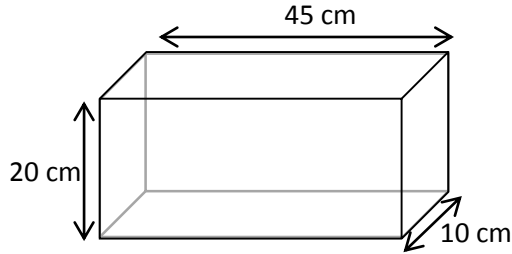
4. The volume of a rectangular prism is 840 in^3 . If the area of the base is 60 in^2 , find its height. Draw and label a model to show your thinking.

5. The following structure is composed of two right rectangular prisms that each measure 12 inches by 10 inches by 5 inches and one right rectangular prism that measures 10 inches by 8 inches by 36 inches. What is the total volume of the structure? Explain your thinking.





6. a. Find the volume of the rectangular fish tank. Explain your thinking.



- b. If the fish tank is completely filled with water, and then 900 cubic centimeters are poured out, how high will the water be? Give your answer in centimeters, and show your work.