

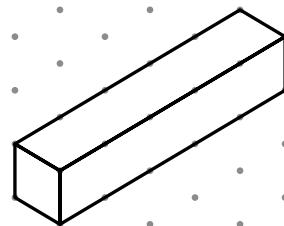
Name _____

Date _____

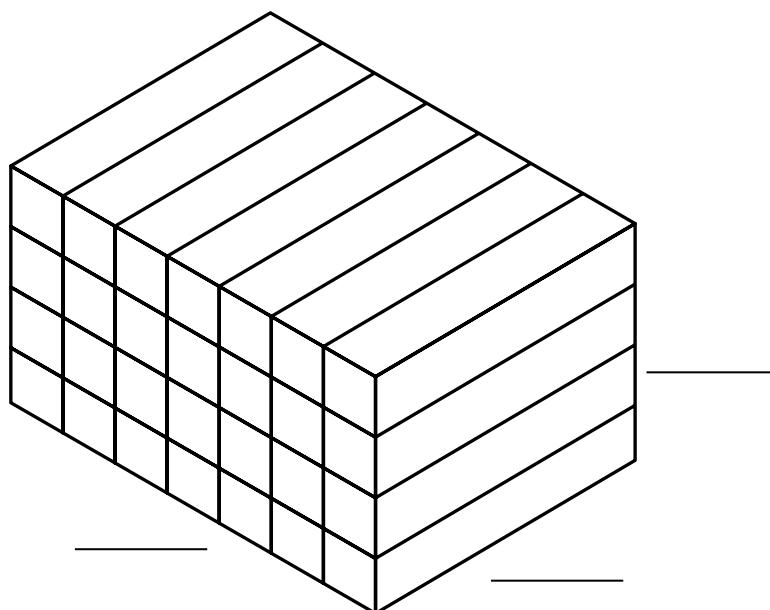


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1. Use the right rectangular prism to complete parts (a)–(f).

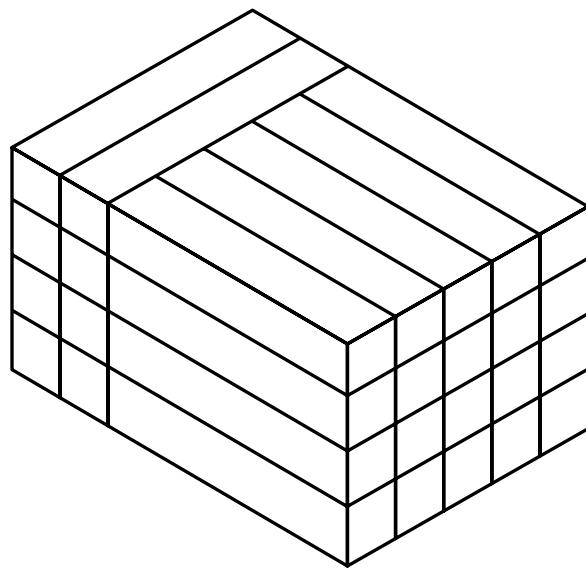


- a. Sketch lines on the prism to show that it is 5 units long, 1 unit wide, and 1 unit tall.
- b. What is the volume of the prism?
- c. Several prisms like the one from part (a) are used to build a larger right rectangular prism. There are 7 stacks of 4 prisms as shown. Fill in the blanks for the unknown measurements.



- d. How many prisms are used to build the larger right rectangular prism?

- e. What is the volume of the larger right rectangular prism?
- f. The prisms like the one from part (a) are arranged in a different way to build another right rectangular prism. There are two groups. One group has 5 stacks of 4 prisms and the other group has 2 stacks of 4 prisms.



Toby says that because this right rectangular prism is built differently, the volume is different from the volume found in part (e). Is Toby correct? Justify your answer.

2. A right rectangular prism is 5 units long, 3 units wide, and 2 units tall.

- a. Sketch the prism.



- b. Fill in the blanks.

The prism has the same length as the prism from problem 1(a), but the width is _____ times as wide and the height is _____ times as high.

- c. What is the volume of the prism?

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3. 12 prisms that are 5 units by 3 units by 2 units are used to build a large right rectangular prism. What is the volume of the large right rectangular prism?