Lesson 4 Problem Set

Name _________________________ Date __________________

1. Each rectangular prism is built from centimeter cubes. State the dimensions, and find the volume.

   a. 
      ![Rectangular Prism](image)
      
      Length: _____ cm
      Width: _____ cm
      Height: _____ cm
      Volume: _____ cm³

   b. 
      ![Rectangular Prism](image)
      
      Length: _____ cm
      Width: _____ cm
      Height: _____ cm
      Volume: _____ cm³

   c. 
      ![Rectangular Prism](image)
      
      Length: _____ cm
      Width: _____ cm
      Height: _____ cm
      Volume: _____ cm³

   d. 
      ![Rectangular Prism](image)
      
      Length: _____ cm
      Width: _____ cm
      Height: _____ cm
      Volume: _____ cm³

2. Write a multiplication sentence that you could use to calculate the volume for each rectangular prism in Problem 1. Include the units in your sentences.

   a. _____________________________
   b. _____________________________
   c. _____________________________
   d. _____________________________
3. Calculate the volume of each rectangular prism. Include the units in your number sentences.

a. 

\[ V = \text{____________________________} \]

b. 

\[ V = \text{____________________________} \]

4. Tyron is constructing a box in the shape of a rectangular prism to store his baseball cards. It has a length of 10 centimeters, a width of 7 centimeters, and a height of 8 centimeters. What is the volume of the box?

\[ V = \text{____________________________} \]

5. Aaron says more information is needed to find the volume of the prisms. Explain why Aaron is mistaken, and calculate the volume of the prisms.

a. 

\[ V = \text{____________________________} \]

b. 

\[ V = \text{____________________________} \]