Volume Problems

1. Two boxes are put together in the following sketch. Find the volume of the boxes in the sketch.



2. Find the volume of the cube in the sketch.



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Name	Date

3. What is the volume of a 10 cm cube?

Volume _____

4. A cube has an edge length of 10.5 cm. Choose your best prediction for the volume of this cube.

_____ The volume of this cube is a little smaller than 1,000 cm³.

_____ The volume of this cube is much smaller than 1,000 cm³.

_____ The volume of this cube is 1,000 cm³.

_____ The volume of this cube is a little larger than 1,000 cm³.

_____ The volume of this cube is much larger than 1,000 cm³.

5. The volume of this cube is 27 cm³. Find the length, width, and height of the cube. Include units.



length _____

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Name ___

6. The following shape is built from a white box and a shaded cube. The volume of the shape is 72 cm³.



Use the following steps to find the height of the white box. Include units.

A. Find the volume of the cube.

B. Find the volume of the white box. _____

C. What is the length of the white box? _____

D. What is the width of the white box? _____

E. Find the height of the white box. _____

Name _____

 The shape in the sketch is built from two identical cubes and a small white box. The volume of the shape is 1,985,500 cm³. Find the height of the small white box. Show your work.

