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## Estimating and Measuring Volume

## Check-In: Questions 1-2

1. Use 8 centimeter connecting cubes to make an object that will fit into a $250-$ cc graduated cylinder. What is the volume of your object?
A. Fill a 250-cc graduated cylinder with a convenient amount of water. Good choices are 160 or 200 cc. Use an eyedropper to carefully
 add the last few drops.
B. Read the water level. Put your eyes at the level of the water. When water creeps up the sides of a cylinder, it forms a meniscus which makes it look as though there are two lines. Read the lower line.
C. Place your object made from connecting cubes into the cylinder. Slide it in gently so that no water will splash. Read the water level now.
D. What is the difference in the level of the water before you added the object and after you added it? Explain the change in water level.
2. Estimate the volume of objects using centimeter connecting cubes and find the volume of these objects by displacement.
A. Choose objects that will fit into a graduated cylinder.
B. Make models of your objects using centimeter connecting cubes. Estimate the volume of the objects by counting the number of cubes in your models.

C. Find the volume of your objects by displacement.
D. Record your results in the table on the next page. Follow the examples.
