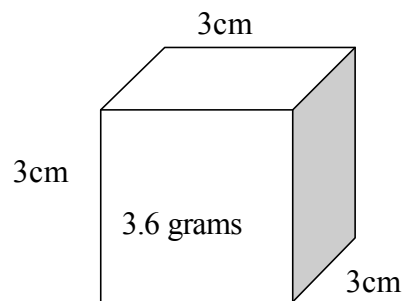


Name\_\_\_\_\_ Date\_\_\_\_\_

## **Practice Using the Relationship Between Mass, Volume, and Density to Calculate the Unknown Variable**

Answer the following questions:

1. To calculate the density of a substance, what measurements must one know?
  
  
  
  
  
2. What are the units used to talk about the density of a solid?
  
  
  
  
  
- 3a. Explain the steps for finding the density of the cube below with the given information:



- 3b. Calculate the density of the cube.

4. What would the density of the cube be if it weighed 1.8 grams?
5. If the density of a solid object is  $4.5 \text{ g/cm}^3$ , and its volume is 9 cubic centimeters, what is its mass?