

## Please do the problems on the other side of this page.

Date	Class Period	Name	

**DIRECTIONS**: Solve the following problems for the unknown quantity.

1. A brick with the following dimensions has a mass of 200.206g

length = 8 cm width = 6 cm height = 2 cm CALCULATE THE DENSITY OF THE BRICK. SHOW YOUR WORK BELOW!

Volume \_\_\_\_\_

Density \_\_\_\_\_

- 2. A lump of unknown mineral has a **volume** of 200 mL and a **mass** of 800 g.
  - What is its DENSITY?

SHOW YOUR WORK BELOW!

Density \_\_\_\_\_

3. 40 **mL** of a liquid has a **mass** of 100.000 g. WHAT IS IT'S DENSITY? SHOW YOUR WORK BELOW!

Density \_\_\_\_\_

4. A bolt dropped into a graduated cylinder containing 32 mL of water causes a **new water level** of 48 mL.

The mass of the bolt is 128.926g. WHAT IS IT'S DENSITY? SHOW YOUR WORK BELOW!

Density \_\_\_\_\_

5. Gold has a **density** of 19.3 g/cm<sup>3</sup>. If we have a lump of gold that has a **mass** of 386 g, what is its **volume?** SHOW YOUR WORK BELOW!

Volume