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| **Density** = weight (mass) per volume.  **Density =**  **Examples or**  **Volume types: gallons, liters, fluid oz.**  **Weight types: lbs. g, ounces** | **Population density**  = divide number of PEOPLE by AREA .  **Population density =** |
| Example 1:  Mercury metal is poured into a graduated cylinder that holds exactly 22.5 ml. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.  **d =**  **d =** | Example 5:  A city has a population of 6,688 people. The city is approximately 7.267 square miles. How many people per square mile live in the city?  **Population density =** |
| Example 2:  A rectangular block of copper metal has dimensions of 8.4 cm by 5.5 cm by 4.6 cm. The density of copper is What is the weight of the block? | Example 6:  What is the population density in our school?  The population is 3000 students, and the school is approximately 323,727 square feet. |
| Example 3:  Some silver coins weigh 2500 g. The density of silver is 10.5 g/cm3. What is the volume in ? | Example 7: In Manhattan, there are 100,000 people per CoffeeStops. Manhattan has approximately 1,602,000 people. How many CoffeeStops are there? |