DENSITY CALCULATIONS (SHOW ALL WORK INCLUDING FORMULA) Box in your answers.

1. 100 grams of a liquid completely fill a 200 mL bottle. What is the density of the liquid?

2. A solution has a density of $\overset{43}{\underset{\vee}{}}$ g/mL. How many grams are needed to obtain 10.0 mL of solution?

3. If a block of copper measures 2.00 cm x 4.00 cm x 5.00 cm and has a mass of 356 grams, what is its density?

4. The density of mercury is 13.6 g/mL, what volume would 120 grams of mercury occupy?

5. A piece of silver has a mass of 2800 grams and occupies a volume of 266 cm². What is the density of silver?