

Name _____ Date _____ Period _____

Density Practice Problems

1) What is the mass of ethyl alcohol that exactly fills a 200.0 mL container? The density of ethyl alcohol is 0.789 g/mL.

2) Calculate the volume of sulfuric acid with a mass of 65.14 g. The density of sulfuric acid is 1.84 g/mL.

3) Find the mass of 250.0 mL of benzene. The density of benzene is 0.8765 g/mL.

4) A block of lead has dimensions of 4.50 cm by 5.20 cm by 6.00 cm. The block weighs 1587 g. From this information, calculate the density of lead.

5) 28.5 g of iron shot is added to a graduated cylinder containing 45.50 mL of water. The water level rises to the 49.10 mL mark. From this information, calculate the density of iron.

6) What volume of silver metal will have a mass of exactly 2500.0 g? The density of silver is 10.5 g/cm^3 .