

EXPERIMENT _____

NAME _____

DATE _____

SECTION _____

PRELABORATORY ASSIGNMENT

1. Provide the key term that corresponds to each of the following definitions.

density (a) the amount of mass in a unit volume of matter; for example, 1.00 g/mLweighing by difference (b) a procedure for obtaining the mass of a sample by first weighing a container and then weighing the container with the sampleuncertainty (c) the degree of inexactness in an instrumental measurementcondition (d) to rinse glassware (e.g., a pipet) with a sample liquid to avoid dilution by water on the inside surfacemeniscus (e) the clear lens at the surface of a liquid inside a graduated cylindervolume by displacement (f) determining volume of a sample by measuring the volume of water displaced**Key Terms:** condition, density, meniscus, uncertainty, volume by displacement, weighing by difference

2. A 10.0-mL sample of liquid is pipetted into a 125-mL flask with stopper. The mass of liquid is found to be 7.988 g. Refer to Example Exercise 1 and calculate the density of the liquid.

$$0.799 \text{ g/mL}$$

3. State the volume of liquid shown in each of the following graduated cylinders.



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