

PRACTICE

Activity 5: Density

Name _____

Date _____

Class _____

1. Imagine that Miguel measured the density of four unknown liquids, as shown in Table 1 below. The uncertainty in the mass measurements is 0.02 grams.

Table 1: Mass of Unknown Liquids		
Unknown Liquid	Mass (g) of 1 cm ³	Kind of Liquid
# 1	1.18 g	
# 2	1.12 g	
# 3	0.73 g	
# 4	1.10 g	

Use the information about densities in Table 2 to identify each liquid. Record the name of each unknown liquid in Table 1. Remember that more than one unknown liquid may be the same kind of liquid.

Table 2: Density of Liquids	
Kind of Liquid	Density Mass (g) of 1 cm ³
Acetic Acid	1.05 g
Antifreeze	1.11 g
Gasoline	0.74 g
Mercury	13.0 g
Rubbing Alcohol	1.20 g
Salt Water	0.79 g
Water	1.00 g

2. A prospector claims to have mined and refined some pure silver metal. What is one way you could check the validity of his claim?
