Name Period Date

Units & Unit Conversions – Ch. 3

 **Part A – SI Units**

What type of measurement is indicated by each of the following units? Choices are in the last column.

1. g/mL
2. s
3. km
4. g
5. cm3
6. mm
7. mg
8. L
9. g/cm3

density

length

mass

time

volume

**Part B – Density**

1. A small gold nugget has volume of 0.87 cm3. What is its mass if the density of gold is 19.3 g/cm3?

1. What volume is occupied by 35.2 g of carbon tetrachloride if its density is 1.60 g/mL?

**Part B – Unit Conversions**

Perform the following SI prefix conversions:

1. 25 kg = g
2. 9.3 mL = L
3. 0.36 mm = μm
4. 24 cm = km
5. How many kilometers are there in 3.4 miles?

1. If a man’s mass is 180 pounds, find his mass in grams.

1. How many liters are there in 13 cases of cola if each can is 12 ounces and each case contains 24 cans.