

Name _____ Period _____ Date _____

Units & Unit Conversions – Ch. 2

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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 _____	4. g _____	7. mg _____	density
2. s _____	5. cm ³ _____	8. L _____	length
3. km _____	6. mm _____	9. g/cm ³ _____	mass
			time
			volume

PART B – DENSITY

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

11. 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:

12. 25 kg = _____ g	14. 0.36 mm = _____ μm
13. 9.3 mL = _____ L	15. 24 cm = _____ km

16. How many kilometers are there in 3.4 miles?

17. If a man's mass is 180 pounds, find his mass in grams.

18. How many kilograms is a 43.5-in³ sample of silver if the density of silver is 10.5 g/cm³?

19. How many liters are there in 13 cases of cola if each can is 12 ounces and each case contains 24 cans. (1 quart = 32 ounces)