

Name _____

Date _____ Pd _____

Chemistry – Unit 1 - Worksheet 6

Dimensional Analysis

Use the factor-label method to make the following conversions. Remember to use the appropriate number of sf's in your answer.

Part 1

1. 74 cm x _____ = _____ meters
2. 8.32×10^{-2} kg x _____ = _____ grams
3. 55.5 mL x _____ = _____ cm^3
4. 0.00527 cal x _____ = _____ kilocalories
5. 9.52×10^{-4} m x _____ = _____ micrometers
6. 41.0 mL x _____ = _____ liters
7. 6.0×10^{-1} g x _____ = _____ mg
8. 8.34×10^{-9} cg x _____ = _____ g
9. 5.0×10^3 mm x _____ = _____ m
10. 1 day x _____ x _____ x _____ = _____ seconds
11. 5×10^4 mm x _____ x _____ = _____ km
12. 9.1×10^{-13} kg x _____ x _____ = _____ ng
13. 1 year x _____ x _____ = _____ hours (approximately)