Name		
	Data	Dal

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 x 10⁻² kg x _____ = ___ grams
- 3. 55.5 mL x ____ = ____cm³
- 4. 0.00527 cal x _____ = ____ kilocalories
- 5. $9.52 \times 10^{-4} \,\mathrm{m} \,\mathrm{x}$ _____ = ___ micrometers
- 6. 41.0 mL x _____ = ____ liters
- 7. 6.0 x 10⁻¹ g x _____ = ___ mg
- 8. 8.34 x 10⁻⁹ cg x _____ = ___ g
- 9. $5.0 \times 10^3 \, \text{mm} \, \text{ s}$
- 10. 1 day x _____ x ____ = ____ seconds
- 11. $5 \times 10^4 \text{ mm x}$ _____ \times ____ = ____ km
- 12. $9.1 \times 10^{-13} \text{ kg x}$ _____ x ____ = ____ ng
- 13. 1 year x _____ x ___ = ____ hours (approximately)

Modeling Chemistry

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