Name _____ Date _____ Period _____

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2-Step Conversions

Chemistry

Go through moles. Chain both conversion factors in one line and round only at the end. Check: particle answers are huge numbers.

1. How many molecules are in 25.0 g of carbon dioxide, CO_2?

2. What is the mass of 5.00×10^{23} atoms of aluminum?

3. How many formula units are in 15.0 g of potassium chloride, KCl?

4. What is the mass of 2.25×10^{24} molecules of ammonia, NH_3?

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5. How many hydrogen atoms are in 0.250 mol of water, H_2O?

6. How many carbon atoms are in 1.50 mol of propane, C_3H_8?

7. A student finds the number of molecules in 9.0 g of water and gets 8.3×10^{-25} molecules. Explain how you know this is wrong and what the student did.

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