Part 1: Molar Mass

Use the periodic table to find the molar masses of the following.

HCl

K₂CO₃

Ca(OH)₂

Na₃PO₄

Part 2: Mole Conversions

Work each of the following problems. SHOW ALL WORK.

1. How many atoms are in 6.2 moles of aluminum.

2. Convert 5.3 x 10²⁵ molecules of CO₂ to moles.

3. How many formula units of sodium acetate are in 0.87 moles of sodium acetate?

4. Convert 3.55 moles NaCl to formula units.

5. Convert 3.00 moles As₂S₃ to grams.
Work each of the following problems. SHOW ALL WORK.

6. How many moles are represented by 11.5 g of C$_2$H$_5$OH?

7. What is the mass of 9.30 moles of SiH$_4$?

8. Convert 8.00 x 10$^{20}$ molecules of H$_2$ to moles.

9. How many atoms of tin are found in 3.50 moles of tin?

10. How many grams of tin are found in 3.50 moles of tin?

BONUS: How many atoms of hydrogen are found in 12.6 moles of water?