

Unit 6B Practice Problems II Molar Mass

Name:

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Part 1: Molar Mass	
Use the periodic table to find the molar masses of the follow	ving.
HCI	K <sub>2</sub> CO <sub>3</sub>
Ca(OH) <sub>2</sub>	Na <sub>3</sub> PO <sub>4</sub>
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## 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  $10^{25}$  molecules of  $CO_2$  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  $As_2S_3$  to grams.



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Work each of the following problems. SHOW ALL WORK.

6. How many moles are represented by 11.5 g of  $C_2H_5OH$ ?

7. What is the mass of 9.30 moles of  $SiH_4$ ?

8. Convert 8.00 x  $10^{20}$  molecules of H<sub>2</sub> 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?