Molar Mass & Percent Composition

| 112014 | | | | Name: | |
|--|------------------|--|---------------|---------------|----------------|
| Part 1: Determine the molar mas | sses of the foll | owing compo | | | |
| l) methane, CH ₄ | | 5) ozone, O ₃ | | | |
| 2) hydrochloric acid, HCl | | 6) ethanol, C ₂ H ₅ OH | | | |
| 3) benzene, C ₆ H ₆ | | 7) so | dium hydro | oxide, NaOH | |
|) oxygen gas, O ₂ | | 8) acetylene, C ₂ H ₂ | | | |
| Part 2: Determine the formulas | | r masses of th | | | |
| Name water | Formula | | M | Iolar Mass | |
| | | | | | |
| sodium carbonate | | | | | |
| calcium bromide | | | | | |
| copper (II) sulfate | | | | | |
| iron (III) fluoride | | | | | |
| nitrogen gas | | | | | |
| Part 3: Show set up and all wor | k (including u | nits) in order | to receive f | ull credit. | |
| 1) Find the percent composition and 2.58 g S in a 5.00 g sample. | | ent in a comp | ound that o | contains 1.94 | g C, 0.48 g H |
| | | | | | |
| | | | | | |
| | | | | | |
| 2) A sample of an unknown con 66.07% carbon, 6.71% hydroger | | | | | |
| element of this compound? | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3) What is the percent composition Ca ₃ (PO ₃) ₂ ? | on of each ele | ment in a mo | ole of the co | mpound calc | ium phosphite, |
| Cu5(1 C5)2. | | | | | |