



_____ Date: ____ Name:_ CHEMISTRY MOLE CONCEPT Answer the questions. 1 mole = 6.02×1023 particles such as atoms, ions, or molecules 1. One mole of lead (Pb) contains _____atoms and its mass is. 2. How many atoms of carbon and chlorine are needed to make one molecule of carbon tetrachloride (CCl4)? C=3. How many atoms of carbon and sulfur are needed to make one molecule of carbon disulfide (CS_2) ? C=4. How many Lydrogen ions (H+) are in a mole?_____ 5. What is the mass of one mole of H+ ions, in grams? Molar Mass 1. Na₃PO₄ _____ 6. (NH₄)₂CO₃ _____ 2. C₆H₁₂O₆ _____ 7. $Z_{0}(C_{2}H_{3}O_{2})_{2}$ 3. silver fluoride 8. NaBr 9. ammonium sulfide_____ 4. iron (II) phosphate _____

5. PbSO₄ ______ 10. Ca(OH)₂ _____