

Name: _____

Date: _____ Per: _____

Chemistry

Mass-Mole Conversions WS

I. Determine the mass of each of the following substances:

| Compound Moles (mol) | Molar Mass (g/mol) | Compound Mass (g) |
|--|--------------------|-------------------|
| 1. 0.576 mol CaCO ₃ | | |
| 2. 2.3 mol HgO | | |
| 3. 1.92 mol S ₂ F ₁₀ | | |
| 4. 0.17 mol (NH ₄) ₂ C ₂ O ₄ | | |
| 5. 11.8 mol AlF ₃ | | |
| 6. 0.088 mol Mg ₃ P ₂ | | |
| 7. 0.43 mol LiAlH ₄ | | |
| 8. 6.42 mol Al(C ₂ H ₃ O ₂) ₃ | | |
| 9. 23.25 mol CaSO ₄ | | |
| 10. 3.37 mol K ₂ Cr ₂ O ₇ | | |

II. Determine the number of moles in each of the following substances:

| Compound Mass | Molar Mass (g/mol) | Compound Moles (mol) |
|--|--------------------|----------------------|
| 11. 75.2 g PF ₅ | | |
| 12. 22.3 g Li ₂ CO ₃ | | |
| 13. 182.1 g CaHPO ₄ | | |
| 14. 12.6 g C ₃ H ₈ | | |
| 15. 76.54 g Mg(CN) ₂ | | |
| 16. 235 g (NH ₄) ₃ PO ₄ | | |
| 17. 2.14 g PBr ₃ | | |
| 18. 4.12 kg Ca(H ₂ PO ₄) ₂ | | |
| 19. 96.8 mg Cl ₂ O ₇ | | |