**CW – Particles and the Mole**

**Name:**

Directions: Solve the following problems using dimensional analysis. You can also use your mole map if needed. **Want full credit?** **Show your work and make sure your answers are in correct significant figures and have units**!

Particles and the Mole

1. How many atoms of gadolinium are in 3.30 mole?
2. How many moles are in 5.45 x 1022 molecules of dihydrogen monoxide?
3. How many formula units are in 0.7707 moles of sodium carbonate?
4. How many moles are in 5.57 x 1024 formula units of sulfurous acid?
5. How many molecules are in 12.50 moles of dinitrogen monoxide?
6. How many moles are in 8,000,000. atoms of aluminum?
7. How many moles are in 10.00 atoms of copper?
8. How many formula units are in 0.0250 moles of chromium (III) sulfate?
9. How many atoms of Cr are in the 0.0250 moles of chromium (III) sulfate from #8?
10. How many atoms of O are in the 0.0250 moles of chromium (III) sulfate from #8?