Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Passanante Pd. \_\_\_\_ Mole Calculations

**More Mole Calculations Practice**

1) What is the mass of 10.5 moles of diatomic oxygen?

2) Calculate the number of moles in 560 grams of bromine.

3) Calculate the number of atoms in 8.1 moles of sodium.

4) Calculate the number of moles in 6.02 x 1023 atoms of helium, He.

5) What is the volume of 1.125 moles of nitrogen gas, N2, at STP?

6) Calculate the number of moles in 22.4 liters of helium gas.

Challenge: ***NOT OPTIONAL – MUST TRY!***

7) Calculate the number of molecules in 11.2 liters of CO2 at STP.

8) Calculate the number of grams in 9.03 x 1023 molecules of hydrogen sulfide, H2S.