Name _____ Mole Map Conversions

Solve the following mole relationship problems, rounding answers to proper sig figs. Show all work for full credit.

1. How many grams will 4.00 moles of AgCl weigh?

2. How many moles are there in a sample of $BaCl_2$ with a mass of 416 grams?

3. How many molecules are there in 8.00 L of H_2?

4. How many grams will 1.80×10^{24} molecules of H_2O weigh?

5. How many liters will 10. grams of He(g) occupy?

6. How many molecules are there in 180. grams of SiO_2?

7. How many grams will 11.2 L of O_2 weigh?

8. How many liters will 3.01×10^{23} molecules of N_2 occupy?