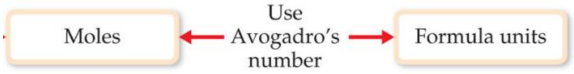
Chemistry Name _____

More Practice with Moles & Avogadro's Number

Instructions: Read the following problems and complete the correct calculations. SHOW ALL WORK. Try to round to the correct number of significant figures.



1. How many formula units are in 3.54 moles of Na_2S.

2. How many moles of NaCl are in a sample of 8.022×10^{23} formula units?

3. How many chlorine atoms are in 2.19 mol of $SrCl_2$?

4. How many moles of H_2O_2 are in a sample of 8.96×10^{22} molecules?

5. How many atoms are in 1.42 mol of HNO_2?

6. Calculate the number of molecules in 5.64 moles of H_2O.

7. Calculate the number of atoms in 0.961 moles of Fe.

8. How many moles of calcium ions are in a sample of 1.24×10^{22} ions?

9. How many atoms are in 7.91 mol of Al_2O_3?

10. How many moles of carbon are in a sample of 29.547×10^{26} atoms?