Mole concept review

1. Determine the number of atoms present in 4.00 moles of aluminum.
2. Determine the number of atoms present in 1.55 moles of sodium.
3. Convert 2.65×10^{25} molecules of fluorine to moles of fluorine.
4. Convert 4.26×10^{25} molecules of hydrogen to L of hydrogen at STP.
5. Convert 1.75×10^{26} atoms of potassium to moles.
6. Determine the mass in grams of 7.20 moles of antimony.
7. Determine the mass in grams of 0.500 moles of uranium.
8. Determine the mass in grams of 0.750 moles of francium.
9. A sample of lead has a mass of 150.0 g. What amount of lead in atoms does the sample contain?
10. A sample of gold has a mass of 5.00×10^{-3} g. What amount of gold in atoms does the sample contain?