

## In Class Examples: *The Road Map*

**Ex 11:** How many carbon atoms are in a diamond that weighs 10.0 grams?

**Prob 26:** What is the mass in grams of 1.00 atoms of mercury?

**You do Prob 27:** How many molecules are in a 9.00 L balloon filled with  $\text{CO}_2$ ?  
Would your answer change if the gas were  $\text{N}_2$ ? Explain.