

Relationships Derived from a Balanced Chemical Equation

1. Complete the missing information in the tables given below.

Table 7.1.1

Chemical Equation	$\text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \rightarrow 2\text{NO}_2(\text{g})$		
Molecules		2 Molecules	
Moles	1 Mole		
Mass			92 grams

Table 7.1.2

Chemical Equation	$\text{P}_4(\text{s}) + 5\text{O}_2(\text{g}) \rightarrow \text{P}_4\text{O}_{10}(\text{s})$		
Molecules			
Moles			
Mass			