## Extra Practice Stoichiometry Problems

- 1. Ethane reacts with oxygen producing carbon dioxide and water. How many moles of oxygen are required to react with 4.50 mol of ethane?
- 2. Nitrogen monoxide reacts with oxygen to produce nitrogen dioxide. What mass (in grams) of nitrogen dioxide is formed when nitrogen monoxide reacts with 384 g of oxygen?
- 3. Hydrogen sulfate reacts with sodium bicarbonate to produce carbon dioxide, sodium sulfate, and water. How many moles of sodium bicarbonate would be needed to react with 150.0 g of hydrogen sulfate?
- 4. Sodium hydroxide reacts with hydrogen sulfate to create sodium sulfate and water. What mass (in grams) of hydrogen sulfate would be required to react with 0.75 mol of sodium hydroxide?
- 5. How many moles of lithium chloride will be formed by the reaction of chlorine with 0.064 mol of lithium bromide? The other product is bromine.
- 6. Phosphorus burns in oxygen to form solid tetraphosphorus decoxide. What mass (in grams) of phosphorus will be needed to produce 3.25 mol of tetraphosphorus decoxide?
- 7. Sodium carbonate reacts with hydrogen nitrate to form sodium nitrate, carbon dioxide, and water. If 7.50 g of sodium carbonate reacts, how many moles of carbon dioxide are produced?
- 8. Silver nitrate reacts with magnesium bromide to produce silver bromide and magnesium nitrate. Calculate the mass (in grams) of silver bromide produced from 25.5 g of silver nitrate.