

## BCI SCIENCE

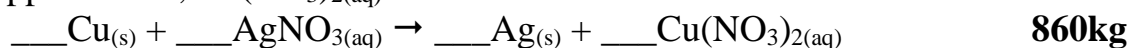
## SCH 4CI

Worksheet:  
Stoichiometry #1

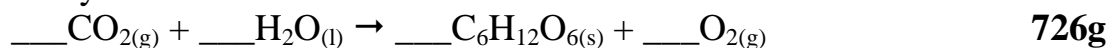
1. Calculate the mass of acetic acid,  $\text{CH}_3\text{COOH}_{(l)}$ , that is produced by the reaction of 6000 g of carbon monoxide,  $\text{CO}_{(g)}$ , with sufficient methanol,  $\text{CH}_3\text{OH}_{(l)}$ .



2. Calculate the mass of silver nitrate,  $\text{AgNO}_{3(aq)}$ , that must react with solid copper to provide 475 kg of copper nitrate,  $\text{Cu(NO}_3)_2(aq)$ .



3. What mass of oxygen,  $\text{O}_{2(g)}$ , is produced if 22.7 mol of carbon dioxide is consumed in a controlled photosynthesis reaction?



4. What amount of moles of sodium phosphate,  $\text{Na}_3\text{PO}_{4(aq)}$ , is produced if 14.7 g of sodium hydroxide reacts with phosphoric acid,  $\text{H}_3\text{PO}_{4(aq)}$ ?

