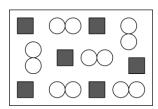Name: Student ID:

1. A mixture of S atoms (■) and O_2 molecules (◯◯) in a closed container is represented in the diagram:
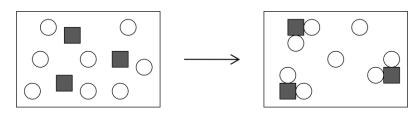

Draw the contents of the container after the mixture reacts as completely as possible according to the equation:
$2S + 3O_2 \rightarrow 2SO_3$

2. A mixture of 2 moles of H_2 and 2 moles of O_2 reacts according to the equation: $2H_2 + O_2 \rightarrow 2H_2O$

What is the limiting reactant, and how many moles of the excess reactant remain after the reaction is complete?

3. The reaction of element X (■) with element Y (◯) is represented in the diagram:

Write the balanced equation for this chemical reaction.

4. How *useful for your learning* was this recitation compared to others (circle)?

More useful   About the same   Less useful

How *enjoyable* was this recitation compared to others (circle)?

More enjoyable   About the same   Less enjoyable