Honors Chemistry Hour\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Dr. Wexler  
Stoichiometry Worksheet 5 (HS-PS1-7)  
Date:

Given the following unbalanced decomposition reaction: C6H12O6 🡪C2H5OH + CO2

1. Rewrite this reaction as a balanced chemical equation:

2. How many moles of CO2 are produced when 0.400 mol of C6H12O6 decomposes? Show all calculations.

3. How many grams of CO2 are produced when 0.400 mol of C6H12O6 decomposes? Show all calculations.

4. How many grams of C2H5OH are produced from 7.5 grams of C6H12O6? Show all calculations.

5. How many grams of CO2 are produced from 7.5 grams of C6H12O6? Show all calculations in the space below. Hint: use the Law of Conservation of Mass.