

3. Carbon dioxide is released into the atmosphere through a process called fermentation. Fermentation involves the conversion of glucose ($C_6H_{12}O_6$) into ethanol (C_2H_5OH) and carbon dioxide (CO_2). This reaction is catalyzed by yeast.
- Write a balanced chemical equation of the fermentation process.
 - How many “ethanol” are produced for each “glucose”?
 - How many “carbon dioxide” are produced for each “glucose”?
 - How many moles of Carbon are there in glucose?
 - What is the mass in grams of Carbon in glucose?
 - How many moles of Hydrogen are there in glucose?
 - What is the mass in grams of Hydrogen in glucose?
 - How many moles of Oxygen are there in glucose?
 - What is the mass in grams of Oxygen in glucose?
 - What is the molar mass of glucose?
 - What is the molar mass of ethanol?

