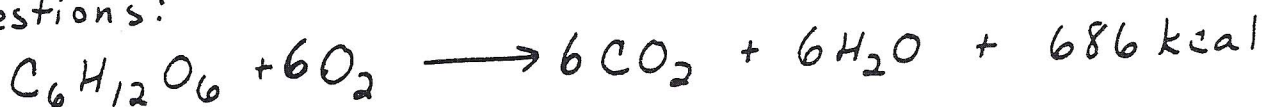


ChemCom Worksheet - Stoichiometry I

Name Alexen / Kimber

Use the equation that follows to answer the following questions:



- ① How many moles of oxygen are needed to completely react with 5.0 moles of glucose?
- ② If 15.0 moles of CO_2 are given off, how many moles of O_2 are required?
- ③ If 2.5 moles of glucose are burned, how much energy is given off?
- ④ In order to produce 1325 kcal of energy, how many moles of oxygen are needed?
- ⑤ If 200. grams of glucose are burned, how many moles of CO_2 are produced?
- ⑥ If 650. grams of glucose are burned, how many moles of O_2 are required?
- ⑦ If 526 grams of glucose are burned, how much energy is produced?
- ⑧ To produce 5000 kcal of energy, how many grams of glucose must be burned?
- ⑨ How many grams of oxygen are needed to burn 526 grams of glucose?
- ⑩ How many grams of carbon dioxide are produced when 56.3 moles of glucose are burned?