Stoichiometry Part 1

Use the following chemical equation to answer the questions:

$$C_2H_2(g) + O_2(g) \rightarrow CO_2(g) + H_2O(g)$$

- a) Write a _____ chemical reaction.
- b) Write a mole ratio for C_2H_2 and O_2
- c) Write a mole ratio for C_2H_2 and CO_2
- d) How many moles of oxygen will react with 3.25 moles of C_2H_2 ?
- e) How many moles of CO_2 will form if 0.62 moles of C_2H_2 is reacted?
- f) How many grams of C_2H_2 are required to react with 8.5 moles of O_2 ?