A. Briefly answer the following questions.

1. Why is pyruvate dehydrogenase considered a complex?
2. What reactions are involved in the oxidative decarboxylation of pyruvate?

B. Read the following story then answer the succeeding questions.

Once upon a time, there were three sisters named Carol, Cheryl, and Carla. They were very close and did everything together. One day, Carol got married and so she had to leave her two sisters behind to live with her husband in their own home.

Cheryl and Carla felt sad about their sister's absence. They decided to ease their loneliness by helping others in their neighborhood. One of those they helped is a young girl named Nadia who grew up in a poor family. The two sisters decided to pay for Nadia's expenses in school so she can graduate from college. This allowed Nadia to get a good job and help her family.

The story above is an analogy of the reactions involved in pyruvate oxidation. Can you identify which specific events in the story correspond to each step in the oxidation of pyruvate? Can you create another story to illustrate pyruvate oxidation?