Bill Bakes A Cake

Read this story and answer the questions

Bill baked a cake for his brother’s birthday. When the cake was taken from the oven Bill noticed that the cake had not risen. Bill guessed that the oven had not heated to the correct temperature. He set up this experiment to test his idea.

First, Bill put a thermometer in the oven. He then turned the oven dial to 200 degrees Celsius. He noticed that the preheating light came on when he turned the oven on. He waited until the preheating light went out. The light going out indicates that the oven is up to temperature. Bill then read the thermometer that he had placed in the oven. It read 200 degrees Celsius. Bill concluded that the oven was working properly.

1. Underline Bill’s hypothesis.
2. Circle Bill’s conclusion,
3. List Bill’s observations

a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Below are statements about the story. Check those that are observations.

\_\_\_\_\_\_\_\_a. Bill thought that the cake recipe was good.

\_\_\_\_\_\_\_\_b. The preheating light came on when the oven was turned on.

\_\_\_\_\_\_\_\_c. The cake was tasty.

\_\_\_\_\_\_\_\_d. The cake was for Bill’s brother’s birthday.

\_\_\_\_\_\_\_\_e. The cake did not rise.

1. After Bill concluded that the oven was working, did he determine that his hypothesis was correct or incorrect? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. What step of the scientific method should Bill do next?

7. List two other hypothesizes that Bill might give.