5.OA Video Game Scores

Task

Eric is playing a video game. At a certain point in the game, he has 31500 points. Then the following events happen, in order:

- He earns 2450 additional points.
- He loses 3310 points.
- The game ends, and his score doubles.

a. Write an expression for the number of points Eric has at the end of the game. Do not evaluate the expression. The expression should keep track of what happens in each step listed above.

b. Eric's sister Leila plays the same game. When she is finished playing, her score is given by the expression

$$3(24500 + 3610) - 6780.$$

Describe a sequence of events that might have led to Leila earning this score.