Problem 1. In the town of Resortville the high state and local sales taxes combine to give a total sales tax of 12% on any purchase. Marlisse buys a fast food lunch at a Resortville eatery and notices that her bill, including tax, is an exact number of dollars (with no cents) and that the sales tax did not have to be rounded. What was the cost, with tax, of Marlisse’s lunch? You must justify your answer with complete work and reasoning.

Solutions due by 10:00am Tuesday, January 20.