7.EE Discounted Books

Task

Katie and Margarita have $20.00 each to spend at Students' Choice book store, where all students receive a 20% discount. They both want to purchase a copy of the same book which normally sells for $22.50 plus 10% sales tax.

- To check if she has enough to purchase the book, Katie takes 20% of $22.50 and subtracts that amount from the normal price. She takes 10% of the discounted selling price and adds it back to find the purchase amount.
- Margarita takes 80% of the normal purchase price and then computes 110% of the reduced price.

Is Katie correct? Is Margarita correct? Do they have enough money to purchase the book?