Decimals in Applications

TRY: Solve the following application problems.

1. The last time I went on a trip, I started and ended the trip with a full tank of gas. I filled my tank three times with 8.3, 8.65, and 8.7 gallons of fuel.
    a. What was the total amount of fuel used?
    b. If I paid $24, $24.96, and $25.66 for fuel and $0.40 in tolls, what was the total amount paid for fuel and toll?
    c. If I averaged 31.49 miles per gallon, what is the approximate number of miles I drove (to the nearest mile)?

2. During the trip, I found a great sale. A camera that originally cost $236.79 was marked down to $184.99. How much did I save on the camera?

3. Our sailboat, EZ Livin', consumes 0.75 gallons of diesel per hour when the engine is used to power the boat. Last weekend, the winds were light, so we had to lower the sails and use the engine $3\frac{1}{4}$ hours. How much diesel fuel was consumed during that time?

4. CK always writes down a deposit or check amount in the company checkbook, but doesn't maintain a current balance. If the company checking account showed a balance of $1,589.47 and the following entries were made, what is the current balance? At any time, was the account overdrawn (the balance went below $0)?

Beginning balance:	$1,589.47
Deposit	1,600.93
Check	2,853.85
Check	928.51
Deposit	3,439.42