MA 111 Worksheet on Percentages

1. Convert each of the decimals into a percent.
   (a) 0.487 = ____%
   (b) 2.78 = ____%
   (c) 0.00191 = ____%

2. Convert each percent into a decimal.
   (a) 32% = ____
   (b) 0.72% = ____
   (c) 125% = ____

3. Convert each fraction into a percent.
   (a) 43/100 = ____%
   (b) 3/4 = ____%
   (c) 11/8 = ____%

4. Suppose the sales tax on a new car is 8% of the purchase price of the car. If the purchase price of the car is $20,000, how much sales tax do you have to pay on the car? What is the total price of the car? (car and tax together)

5. The price tag on your new computer is $1,200.00, but the cashier asks you to pay $1,278.00. What is the sales tax rate?

6. (a) 500 students enrolled in MA 111 Fall 2009. This semester saw a 25% increase in enrollment. How many students enrolled in MA 111 this semester?
   (b) 80 students enrolled in MA 112 Fall 2009. This semester saw a 20% decrease in enrollment. How many students enrolled in MA 112 this semester?

7. An electronic store marks up the price of all of their video games by 150%. (I.e., their retail price is 150% higher than the wholesale price.) A certain game is put on the 20% off clearance table. The store then has a 15% off everything sale. You buy the game using a 10% off coupon. How much did you pay for the game? (Express your answer as a percent of the unknown wholesale price.)