

Show all work and simplify all answers before circling/boxing them. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for credit.

Suggested due date: next class period. Final due date: the day of the Unit 1 Exam.

- (1) After a 90% reduction, you purchase a clothes dryer for \$64. What was the original price?
- (2) Rent-a-Car rents a luxury car at a daily rate of \$38.97 plus 5 cents per mile. A business person is allotted \$100 for car rental each day. How many miles can they travel on \$100?
- (3) A new television set was recently purchased for the common room of a residence hall for \$519.40 including a 6% tax. What was the price of the TV before taxes?
- (4) The bus fare in a certain city is \$1.75. If you purchase a \$26 monthly coupon, your fare is reduced to \$0.75. How many times in a month would you have to use the bus for the costs to even out?
- (5) You are in the aisle of a grocery store and notice that a fruit bar claims to have 10% more fiber than its competitor. If the competitor has 8.8g of fiber, how many grams of fiber are in the fruit bar?
- (6) A graphic designer decides to increase their hourly rate by 5% to combat inflation. If their new hourly rate is \$22.72, what was their original rate?