1. You want to buy a used car. You have a few models in mind but you only have $\$ 5000$ to spend.

Some places on the internet to find cars are autotrader.com and motors..com. Search these or other websites to find the car of your dreams at the price you can afford.

You might want to take into consideration not only a certain make or model but also things like the gas mileage, reliability, the number of miles on the car, insurance costs among other things. The two websites mentioned will direct you to other websites where you can find this information.
a) What make, model, and model year car did you select?
b) How many miles are on the car?
c) What is the city and highway gas mileage for this car?
d) What do consumer reports or previous owners have to say about the reliability of this car? What are common problems they report?
e) Check some car insurance websites such as progressive.com to find the cost of insuring your car. What is the least amount you can expect to pay for a year if you have only third party liability insurance? What would the cost be for comprehensive insurance?
f) Why did you decide to buy this car? What did the vehicle description say to convince you that this was "the one"?
2. You have bought your dream car and immediately want to take a road trip of 600 miles in total.
a) If this trip is mainly highway driving, how much gas will you use?
b) If gas costs $\$ 2.80$ a gallon, what will the gas cost for this trip?
3. a) How many miles do you expect to drive your car in a year?
b) How much will this cost just for the gas?

Consider how many of these miles will be highway and how many will be city and use your car's gas mileage ratings to find the number of gallons. Perhaps gas will go up in price so use $\$ 3.00$ a gallon to calculate your cost.
4. Suppose you find an insurance plan that charges $10 \%$ of the value of the car for the annual insurance.
a) What will the insurance cost for your car for a year?
b) Suppose you are allowed to pay this in monthly installments. How much will this be per month?
c) If you want comprehensive insurance, this increases to $15 \%$ of the value of your car? How much would you then have to pay per year?
5. Find another website such as autopartsworld.com that sells parts for you car.

Choose three parts that you might have to replace on your car. Find the total cost of these parts including shipping and handling.

