Energy Quiz ___ Assignment

Due:

Assuming that gasoline is mostly octane, this fuel gives approximately 31,100 kcal/gal during combustion in your car's engine. Your body derives energy from food in a manner similar to your car's engine. Nutrition labels are now found on every form of packaged food.

remember: 1 Calorie = 1 kcal = 1000 calories

Provide the following information based on a car you drive and a food of your choice:

1. average fuel efficiency of your car (miles/gal) _____

2. type of food _____

3. Fill in the chart to the right using information printed on your food package.

Nutrition Facts
Serving size _____
Servings per container _____
Amount per Serving
Calories _____

Answer the following questions. USE CLEAR REASONING WITH PROPER UNITS to support your calculated answers:

1. Determine the number of kcal provided from one package of your chosen food.

2. Determine the amount of kcal required to drive your car from Conway to Little Rock (30 mi).

3. Determine the number of packages of food required to supply the energy calculated in 2.