

## Mastering Chemistry Homework Answers Chapter 3

± Using Conversion Factors

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± Using Conversion Factors Ben Newell

Chemistry is an experimental science in which a consistent system of measurements is used. Scientists throughout the world use the International System of Units (Système International or SI), which is based on the metric system. However, the metric system is not used on an everyday basis in the United States. It is often necessary to convert between the English system, which is used in the United States, and the SI system. One problem with the SI system is the size of the units sometimes turns out to be inconveniently large or small. Therefore it is often necessary to make conversions within the SI system. For this reason, SI units are modified through the use of prefixes when they refer to either larger or smaller quantities.

**Part A**

In Europe, gasoline efficiency is measured in km/L. If your car's gas mileage is 33.0 mi/gal, how many liters of gasoline would you need to buy to complete a 142-km trip in Europe? Use the following conversions: 1 km = 0.6214 mi and 1 gal = 3.78 L.

Express your answer numerically in liters.

L

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**Part B**

While in Europe, if you drive 105 km per day, how much money would you spend on gas in one week if gas costs 1.10 euros per liter and your car's gas mileage is 41.0 mi/gal? Assume that 1 euro = 1.26 dollars.

Express your answer numerically in dollars.

dollars

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- essay about the various forms of storage mr. Currently, I am a research assistant for my first Masters at the University of British Columbia. It's an art that takes the teachings of a wide number of scientists and takes them to his own unique style of thought. They know the product is good. The research study proves that a preparation of sodium molybdate is an effective antibacterial agent against some food-borne. The four key steps are as follows: 1) select the right flute for your requirements (read the product info that you are interested in) 2) purchase the flute 3) install the flute in your vehicle 4) practice!"And then, to make matters worse, at the end of the night, when we were all exhausted and confused and had nearly forgotten what our 'favourite number one' was, the DJ said that it was '39'." "I don't really have any memory of this. Maybe I was already drunk and the night was mostly a blur. I was in complete shock that my mum had left me alone in the room, on the bed, with the body of a man I didn't know." "I wasn't in love with him. But he was a good-looking man. And I guess I was a bit drunk. I thought I was making the best decision for myself. I thought it would be best to just get it over with, like every other time I've had sex. And I thought I could forget it after I did it. But then I woke up in the morning, and I was a little bit sore. I was in a bit of a state, and I told the first person I met. I didn't tell my mum at all. I pretended to be reading in a library and was so scared to tell her what had happened. I made up a story about having sex with a man who I didn't know." "I don't know how I even got out of the house, and to my cousin's house. I was shaking so much. I barely remember the drive home. I couldn't get out of the car. I remember them just letting me sit in the car until I was myself again. But my mum was furious, and I felt so guilty for getting in her car drunk, and for leaving the party so early. She told me I was a 'disgrace to the family'." "I don't know how my mum must have found out. But I was 82157476af

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