

Chem 103, Spring 2006
Prof. Sevian
Assignment 1

Homework Assignment

- ↪ Chapter 1: problems 1, 5, 8, 11, 15, 23, 25, 29, 35, 37, 39, 41, 43, 45, 63
- ↪ Additional problem “Elements, Compounds, or Mixtures?” on the next page
- ↪ Do all the exercises in the document “Practice Problems for Calculator Use” (available separately under “Assignments” on the current Chem 103 website). Be sure you are entering the numbers according to the suggestions on the second page of this document, and that you get the same answers. There are some less obvious significant figures issues in some of these. If you don’t understand why an answer should be given to the number of significant figures shown, ask for clarification in your discussion session.

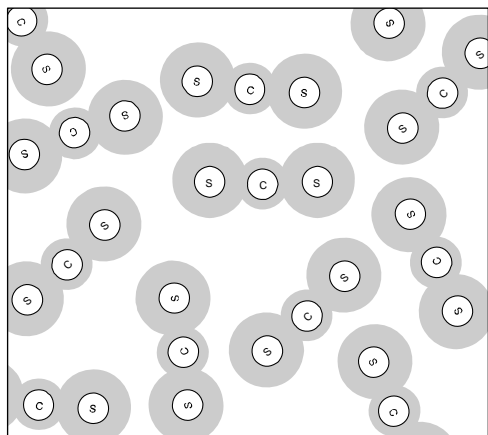
Answers to problems in book are in the back of the book. Worked out solutions are in the Student Solutions Manual, which you have access to if you purchased the bundle from the bookstore. Otherwise, you can use one of the paper copies of the Student Solutions Manual on reserve at Healey Library.

Announcements

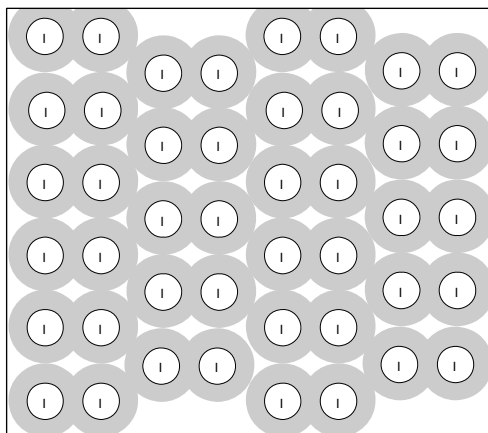
- ↪ There will be no laboratory or discussion sections the first week of class. Both laboratories and discussion sections will begin the week of January 30. Please see the course calendar, in your syllabus and also posted on the course website, for more details.

Elements, compounds or mixtures?

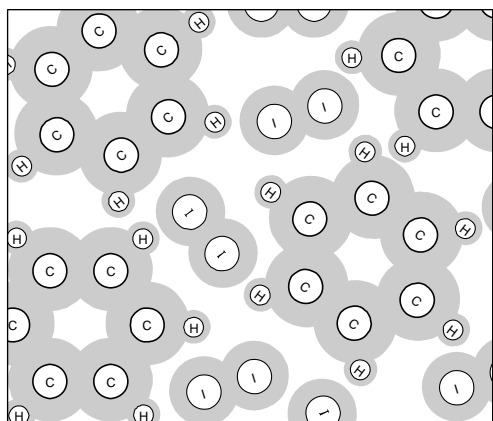
Each of the following diagrams shows a representation of particles in a material. For each diagram, write whether you think it represents an element, a compound, or a mixture. Briefly explain why.



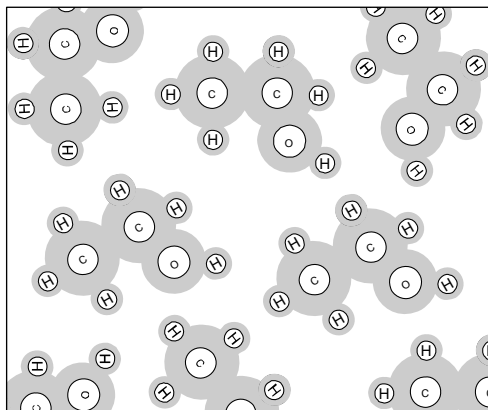
1. _____



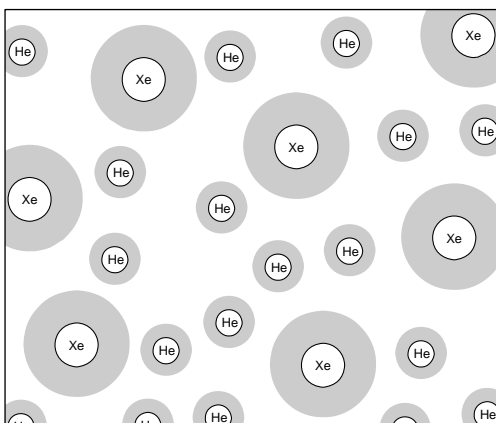
2. _____



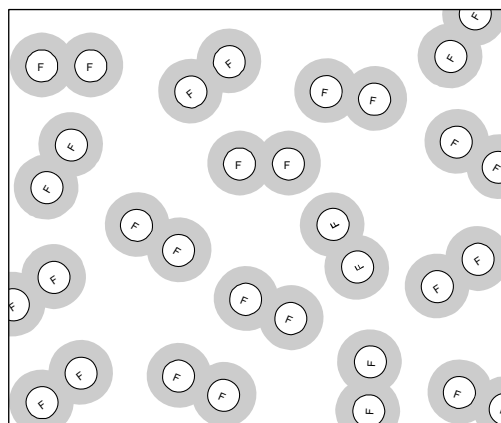
3. _____



4. _____



5. _____



6. _____