

REVIEW

6 SECTION 6.1**Solutions and Other Mixtures**

1. **Classify** each of the following mixtures as homogeneous or heterogeneous:

- _____ a. lemonade with pulp
_____ b. coffee with cream and sugar
_____ c. vinegar
_____ d. dessert gelatin with pears in it

2. **Compare** suspensions, colloids, and solutions in terms of particle size and methods to separate each type of mixture.

3. **Explain** why the air we breathe and solids, such as steel and bronze, are solutions or homogeneous mixtures, just like salt water is.

4. **Identify** the solute and solvent when sugar and water are mixed to form nectar for a hummingbird feeder.

5. After boiling a chicken in a stock pot, you let the chicken stock cool down and place it in the refrigerator overnight. The next day you notice that a solid layer of fat has formed on the top of a gelatinous mixture.

- a. **Explain** why the chicken fat rose to the top.

- b. **Explain** what the gelatinous mixture is underneath the layer of fat.

- c. **Describe** how you could separate the fat from the gelatinous mixture.

