Honors Chemistry: Homework Set 1-9

1. Explain how mixtures are different from compounds.

2. Distinguish between a heterogeneous mixture and a homogeneous mixture. Provide an example of each.

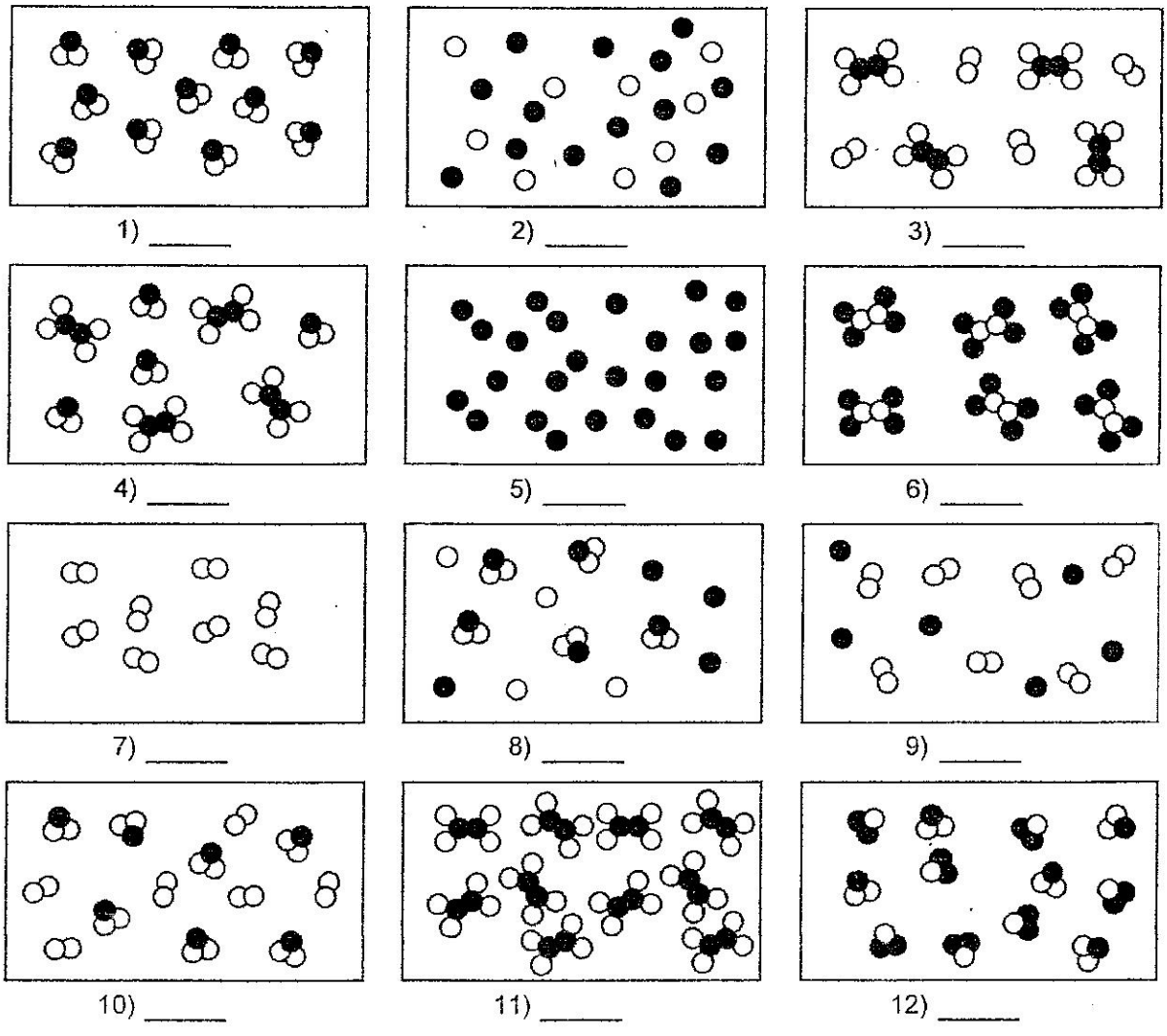
3. Explain how filtration and distillation are used to separate particular kinds of mixtures. Provide a specific example in which each can be used.

4. Identify each of the following as an element, a compound, a heterogeneous mixture, or a homogeneous mixture.

   (a) mouthwash
   (b) baking soda
   (c) chocolate chip granola bar
   (d) diamond
   (e) orange juice
   (f) dry ice

5. Each circle represents an atom and each different color represents a different kind of atom. If two atoms are touching then they are bonded together. Classify each of the diagrams below by placing the correct label in the blanks below.

   A = element
   B = compound
   C = mixture of elements
   D = mixture of compounds
   E = mixture of elements and compounds



1) _____ 2) _____ 3) _____

4) _____ 5) _____ 6) _____

7) _____ 8) _____ 9) _____

10) _____ 11) _____ 12) _____