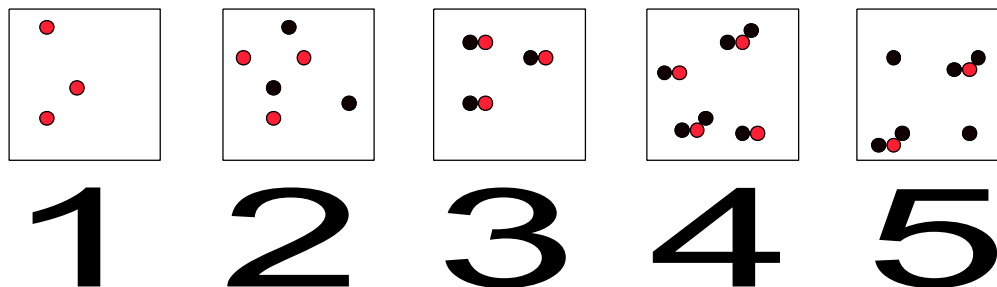


AP WORKSHEET 01D: Elements, Mixtures & Compounds

- Classify each of the following as either, an **element**, a **compound** or a **mixture**. If you classify something as a mixture then **also** state whether it is a **homogeneous** or a **heterogeneous** mixture. (10)
 - Helium
 - Nitrogen
 - Pure water
 - Pure table salt (sodium chloride)
 - Flat (un-carbonated) Coca-Cola
 - Air
 - Fruit cake
- If three, different samples of a particular compound are found to have exactly the same elemental % by mass, what does that tell us about;
 - the three samples in relation to one another? (2)
 - the purity of the three samples? (2)
- Visit the following URL: <http://www.darvill.clara.net/multichoice/emc.htm> and answer the question found there. (11)

4. Match the following particulate diagrams to the correct description. In each case a black circle and a red circle represent the atoms of different elements. (4)



- A. A single, pure, monatomic element.
- B. A mixture of two elements.
- C. A single, pure compound.
- D. A mixture of two compounds.
- E. A mixture of an element and a compound.

