

CHEMISTRY 3A --- WORKSHEET 5

CHAPTERS 3 and 12

1. Identify the following as a *homogeneous mixture*, a *heterogeneous mixture*, an *element*, or a *chemical compound*.
 - a. air
 - b. pancake batter
 - c. brass (an alloy of copper and zinc)
 - d. table salt (sodium chloride)
2. Show the electron dot diagrams for the following elements.
 - a. K
 - b. Se
 - c. He
3. Identify the following substances as ionic or covalent.
 - a. P_4
 - b. CO_2
 - c. $TiCl_4$

4. Draw Lewis dot structures for the following covalent compounds and ions, and show the bond angles in the structures.

