

REVIEW QUESTIONS

Chapter 11

- Classify each of the following as element, compound, homogeneous mixture or heterogeneous mixture:
 - tap water _____
 - sand on the beach _____
 - aluminum foil _____
 - pizza _____
 - baking soda _____
- Name and write symbol for each element described below:
 - alkali metal in period 4 _____
 - halogen in period 2 _____
 - metalloid in period 3 _____
 - noble gas in period 5 _____
 - alkaline-earth metal in period 3 _____
- Complete each statement below with an appropriate term:
 - Un-reactive elements in the last group of the periodic table are called _____.
 - A pure substance made of 2 or more atoms with a fixed ratio is called _____.
 - Elements between the main group elements are called _____.
 - Homogeneous mixtures are also called _____.
 - Elements in group 2 of the periodic table are called _____.

4. For each question below, arrange in order of increasing metallic character:

a) P Cl Sb _____ < _____ < _____

b) K Ba Al _____ < _____ < _____

5. Name each of the following compounds listed below:

a) Li_2S _____

b) PCl_3 _____

c) CaBr_2 _____

d) SO_3 _____

e) AlCl_3 _____

6. For each question below, indicate how many elements and how many atoms are in each formula:

a) $\text{Mg}_3(\text{PO}_4)_2$ Elements: _____ Atoms: _____

b) $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ Elements: _____ Atoms: _____

c) $\text{Al}_2(\text{SO}_4)_3$ Elements: _____ Atoms: _____