

**WKS – Chem 1**  
**Mixtures**

**NAME** \_\_\_\_\_  
**Period** \_\_\_\_\_ **Date** \_\_\_\_\_

Read Ch. 3.3 pp. 66-69 in your text then answer the following questions.

1. How do mixtures and pure substances differ?
2. Heterogeneous mixtures are (**chemical, physical**) combinations composed of (**one uniform-looking phase, two or more distinct phases**) that is/are (**easy, difficult**) to separate.
3. Homogeneous mixtures are (**chemical, physical**) combinations composed of (**one uniform-looking phase, two or more distinct phases**) that is/are (**easy, difficult**) to separate.
4. Classify each of the following as either a heterogeneous (het) or homogeneous (hom) mixture:
  - a. orange juice (with pulp)
  - b. tap water
  - c. steel (an alloy of iron and carbon)
  - d. air
  - e. raisin muffin
  - f. fruit salad
  - g. black coffee
5. Mixtures can be separated by differences in (**chemical, physical**) properties.
6. What properties could be used to separate the following mixtures?
  - a. Iron grains & sand grains
  - b. Ethanol & Methanol (two liquids)
  - c.  $\text{CuCl}_2$  dissolved in water
  - d. Pasta in water