(5) 1. Iodine is a nonmetal which is a reddish-brown solid at room temperature. If the temperature is elevated, iodine sublimes, that is, goes from solid to a vapor directly. Iodine reacts with metallic sodium to produce a salt, sodium fluoride. Iodine also reacts with another nonmetal, chlorine, to produce a variety of compounds.

Identify from the above statements the chemical properties, physical properties, chemical changes, and physical changes.

Physical properties:

Chemical properties:

Physical changes:

Chemical changes:

(5) 2. Make the following conversions.

987 mL = _______ L

0.00453 kg = _______ g

1.45 kL = _______ mL

52.45 m = _______ cm

34.5 cm$^3$ = _______ L
3. Identify each of the following as an element or a compound.

He _______________
HCN _______________
Co _______________
CO _______________
Rn _______________

4. Identify each of the following as either a pure substance or a mixture. Further identify each pure substance as either an element or compound and each mixture as heterogeneous or homogeneous.

Sand in salt water _______________________
Blood ____________________
Gold ring __________________
Flat Coca-Cola (no bubbles) _________________
Egg ________________________

Use this space to make any comments you wish about the choices in problem 4. If you have doubts about some of your answers, state your doubts here.