

CHAPTER 1

PROBLEMS, pp. 32-63, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 26, 29, 33, 35, 36, 37, 39, 41, 47, 49, 50, 50b, 55, 70, 81, 83, 85, 85

- 3.5 Classify the following as qualitative or quantitative statements and explain.
- (a) The sun is approximately 83 million miles from Earth. Quantitative. This statement clearly involves a measurable distance.
- (b) Leonardo da Vinci was a better painter than Michelangelo. Qualitative. This is a value judgment. There is no numerical scale of measurement for artistic excellence.
- (c) Ice is less dense than water. Qualitative. If the numerical values for the densities of ice and water were given, it would be a quantitative statement.
- (d) Harry tastes better than sugarcane. Qualitative. Another value judgment.
- (e) A stick is one meter long. Quantitative. Even though numbers are involved, they are not the result of measurement.
- 3.11 Do the following statements describe chemical or physical properties?
- (a) Oxygen gas supports combustion. Chemical property. Oxygen gas is consumed in a combustion reaction; its composition and identity are changed.
- (b) Fertilizers help to increase agricultural production. Chemical property. The fertilizer is consumed by the growing plants; it is turned into soluble matter (different composition).
- (c) Water boils below 100°C on top of a mountain. Physical property. The measurement of the boiling point of water does not change its identity or composition.
- (d) Lead is denser than aluminum. Physical property. The measurement of the densities of lead and aluminum does not change their composition.
- (e) Uranium is a radioactive element. Nuclear property. When uranium undergoes nuclear decay, its products are chemically different substances.
- 3.12 Does each of the following describe a physical change or a chemical change?
- (a) The helium gas inside a balloon tends to leak out after a few hours. Physical change. The helium isn't changed in any way by leaking out of the balloon.
- (b) A flashlight beam slowly gets dimmer and finally goes out. Chemical change in the battery.
- (c) Frozen orange juice is reconstituted by adding water to it. Physical change. The orange juice concentrate can be regenerated by evaporation of the water.
- (d) The growth of plants depends on the sun's energy in a process called photosynthesis. Chemical change. Photosynthesis changes water, carbon dioxide, etc. into complex organic matter.
- (e) A spoonful of table salt dissolves in a bowl of soup. Physical change. The salt can be recovered unchanged by evaporation.
- 3.14 Give the chemical symbols for the following elements?
- (a) potassium K (b) Tin Sn (c) aluminum Al (d) boron B
 (e) barium Ba (f) phosphorus P (g) sodium Na (h) argon Ar
 (i) mercury Hg
- 3.15 Classify each of the following substances as an element or a compound.
- (a) hydrogen element (b) water compound (c) gold element (d) sugar compound
- 3.16 Classify each of the following as an element, a compound, or a heterogeneous or homogeneous substance.
- (a) neonate's homogeneous mixture (b) helium gas element
 (c) sodium chloride compound (d) soft drink's heterogeneous mixture
 (e) milkshake's heterogeneous mixture (f) air's homogeneous mixture
 (g) concrete's heterogeneous substance

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