Name _

Class_

atoms

Skills Worksheet

Directed Reading B

Section: Elements (pp. 134–137) ELEMENTS, THE SIMPLEST SUBSTANCES

1. A pure substance that cannot be separated into simpler substances by

physical or chemical means is called a(n) _

2. A substance in which all of the "building-block" particles are identical

is called a(n) _______ substance.

3. The building-block particles for elements are called _____

CLASSIFYING ELEMENTS

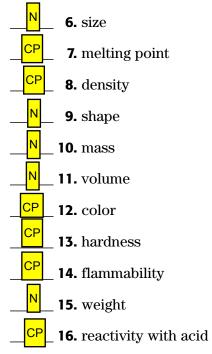
4. The amount of an element present does not affect the element's

characteristic properties

5. Why does a helium-filled balloon float up when it is released?

Helium is an elemental gas that is less dense than air. Air is 80% nitrogen.

Look at each property listed below. If it is a characteristic property of elements, write *CP* in the space provided. If it is not a characteristic property, write *N*.



Copyright © by Holt, Rinehart and Winston. All rights reserved.

Name	Class	Date
Directed Reading B continued		

GROUPING ELEMENTS

17. What are two common properties that most terriers share?

small in size and have short hair

- **18.** All elements can be classified as metals, metalloids, or Nonmetals
- 19. An element that is shiny and that conducts heat and electricity well is called
 - a(n) __<mark>metal</mark>_____
- **20.** An element that conducts heat and electricity poorly is called
 - a(n) ______
- **21.** Elements that have properties of both metals and nonmetals

are called _____metalloids or semimetals____

Indicate whether the description applies to a metal, a nonmetal, or a metalloid. Write the correct letter in the space provided. Letters can be used more than once.

metals **22.** are malleable a. metalloids **b.** nonmetals metalloids **23.** are dull or shiny **c.** metals nonmetals **24.** are poor conductors nonmetals **25.** tend to be brittle and unmalleable as solids metals **26.** are almost always shiny metalloids **27.** are also called semimetals nonmetals **28.** are almost always dull metalloids **29.** are somewhat ductile metalloids **30.** include boron, silicon, antimony metals **31.** include lead, tin, copper nonmetals **32.** include sulfur, iodine, neon