Practice Problems Section 2.5

1) Horizontal rows of the periodic table are known as \_\_\_\_\_\_\_\_\_\_.

A) periods

B) groups

C) metalloids

D) metals

E) nonmetals

2) Vertical columns of the periodic table are known as \_\_\_\_\_\_\_\_\_\_.

A) metals

B) periods

C) nonmetals

D) groups

E) metalloids

3) Elements in Group 1A are known as the \_\_\_\_\_\_\_\_\_\_.

A) chalcogens

B) alkaline earth metals

C) alkali metals

D) halogens

E) noble gases

4) Elements in Group 2A are known as the \_\_\_\_\_\_\_\_\_\_.

A) alkaline earth metals

B) alkali metals

C) chalcogens

D) halogens

E) noble gases

5) Elements in Group 7A are known as the \_\_\_\_\_\_\_\_\_\_.

A) chalcogens

B) alkali metals

C) alkaline earth metals

D) halogens

E) noble gases

6) Elements in Group 8A are known as the \_\_\_\_\_\_\_\_\_\_.

A) halogens

B) alkali metals

C) alkaline earth metals

D) chalcogens

E) noble gases

7) Potassium is a \_\_\_\_\_\_\_\_\_\_ and chlorine is a \_\_\_\_\_\_\_\_\_\_.

A) metal, nonmetal

B) metal, metal

C) metal, metalloid

D) metalloid, nonmetal

E) nonmetal, metal

8) In the periodic table, the elements are arranged in \_\_\_\_\_\_\_\_\_\_.

A) alphabetical order

B) order of increasing atomic number

C) order of increasing metallic properties

D) order of increasing neutron content

E) reverse alphabetical order

9) Which pair of elements would you expect to exhibit the greatest similarity in their physical and chemical properties?

A) O, S

B) C, N

C) K, Ca

D) H, He

E) Si, P

10) Of the following, only \_\_\_\_\_\_\_\_\_\_ is not a metalloid.

A) B

B) Al

C) Si

D) Ge

E) As

11) Which pair of elements below should be the most similar in chemical properties?

A) C and O

B) B and As

C) I and Br

D) K and Kr

E) Cs and He