

**Chemistry - Review Chapters (45) 6**

Directions: Answer each of the following questions. You need not use complete sentences.

1. By what property did Mendeleev arrange the elements?

**ATOMIC MASS**

2. By what property did Moseley suggest that the periodic table be arranged?

**ATOMIC NUMBER**

3. What is a period? How many are there in the periodic table?

**A HORIZONTAL ROW IN THE PERIODIC TABLE: 7**

4. What is a group (also called a family)? How many are there in the periodic table?

**A VERTICAL COLUMN IN THE PERIODIC TABLE: 18**

5. State the number of valence electrons in an atom of:

a. sulfur  
6

b. calcium  
2

c. chlorine  
7

d. arsenic  
5

6. Give the names and chemical symbols for the elements that correspond to these atomic numbers:

a. 10  
**Ne, NEON**

b. 18  
**Ar, ARGON**

c. 36  
**Kr, KRYPTON**

d. 90  
**Th, THORIUM**

7. List, by number, both the period and group of each of these elements.

Symbol	Period	Group
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a. beryllium

Be

2

2

b. iron

Fe

4

8

c. lead

Pb

6

14

8. Which of the following pairs of elements belong to the same period?

a. Na and Cl

b. Na and Li

c. Na and Cu

d. Na and He

9. Which of the following pairs of elements belong to the same group?

a. H and He

b. Li and Be

c. C and Pb

d. Os and Ge

10. How does an element's period number relate to the number of the energy level of its valence electrons?

**PERIOD NUMBER = ENERGY LEVEL OF VALENCE ELECTRONS**

11. What are the transition elements?

**GROUPS 3-12**

12. In what type of orbitals are the actinide and lanthanide electrons found?

**F ORBITALS**

# Answer Key Prentice Hall Chemistry Guide

**SA Dillow**

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