B. 1			
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# 6.1

## **ORGANIZING THE ELEMENTS**

### **Section Review**

#### **Objectives**

- Explain how elements are organized in a periodic table
- Compare early and modern periodic tables
- Identify three broad classes of elements

#### **Vocabulary**

- periodic law
- metals
- nonmetals
- metalloids

#### **Part A Completion**

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Chemists used the1 of elements to sort them into groups.	1.
The periodic table organizes the elements into vertical2	2
and horizontal 3 in order of increasing 4. The table is	
constructed so that elements that have similar chemical properties	4
are in the same	5
when cut. Most nonmetals are at room temperature.	6
Elements with properties that are similar to those of metals	7.
and nonmetals are called8 Across the periodic table,	8.
the properties of elements become metallic and	
10	9
	10

	Dat	te	Class			
art B True-False						
lassify each of these statemer	ıts as always true,	, AT; sometimes true	ST; or never true, NT.			
10. In his periodic table, Mendeleev arranged the elements in order of atomic number.						
11. There are six periods in a periodic table.						
12. Most of the elements in the periodic table are metals.						
13. The elements within a period have similar properties.						
Part C Matching						
1atch each description in Co	lumn B to the cor	тесt term in Columr	iA			
Column A		Column B				
14. metals	a.	a vertical column of	f elements in the periodic table			
15. periods	<b>b.</b>	good conductors of	heat and electric current			
16. group	c.	poor conductors of	heat and electric current			
17. nonmetals		have properties tha nonmetals	t are similar to those of metals and			
18. metalloids	e.	the horizontal rows	of the periodic table			
Part D Questions  Answer the following question  19. List the elements of Grownetalloid.	ons in the space pi	rovided.	nonmetal, or			
Answer the following question 19. List the elements of Gro	ons in the space property	rovided.	nonmetal, or			