## Name

## 7–1 Review and Reinforcement

## Ionic Bonding

Complete each of the following sentences by filling in the appropriate word or phrase from the list below.

positive ele		noble ga		octet	electron configuration		
		electron anion	5	ions cation	polyatomic empirical formula		
1.	An ionic bond is a	an attractio	n between op	positely charged			
2.	Anions have a						
3.							
4.	The rule states that atoms tend to gain, lose, or share electrons in order to acquire a full set of valence electrons.						
5.	When sodium and chlorine form an ionic bond, both ions acquire the electron configuration of a(n)						
6.	The atoms that make upions are bonded together by covalent bonds.						
7.	• The method can be used to write the formula for an ionic compound.						
8.	The of a compound denotes the ratio of ions in the compound.						
	the statement is tru le. Write your answ			se, change the un	derlined word or words to make it		
· .		9.	Calcium bed	comes a monatomi	c cation by <u>gaining</u> two electrons.		
- Finned		10.	A cation has	s a <u>positive</u> charge	•		
		11.	A binary io one kind of		ntains only <u>one</u> kind of cation and		
		12.	Monatomic	ions consist of mo	re than one atom.		
		13.	The Lewis c electrons.	lot diagram for ch	lorine, a group 7A element, has <u>six</u>		
	-	14.	A great dea formed.	l of energy is <u>proc</u>	<u>luced</u> when an ionic compound is		

Draw the Lewis dot diagram for each of the following elements.

15. B 19. Si

**16.** Cl

17. O

18. Ne

22. Mg

20. Na

**21.** Al

Write the chemical formula for each of the following ionic compounds.

 23. aluminum sulfide	
 24. ammonium carbonate	
 <b>25.</b> calcium oxide	
 <b>26.</b> strontium chloride	
 <b>27.</b> potassium oxide	
 <b>28.</b> sodium fluoride	•