

Chapter 7

CONCEPT REVIEW

Write the names of the elements represented by the following symbols.

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|----------------|-------------|
| 1. a. Cu _____ | i. Ca _____ |
| b. Al _____ | j. K _____ |
| c. C _____ | k. Mg _____ |
| d. H _____ | l. Br _____ |
| e. O _____ | m. P _____ |
| f. N _____ | n. F _____ |
| g. Cl _____ | o. Ne _____ |
| h. Na _____ | p. Ag _____ |

Write the names of the following ions.

- | | |
|------------------------------|-----------------------------|
| 2. a. Si^{4+} _____ | f. O^{2-} _____ |
| b. Cu^+ _____ | g. S^{2-} _____ |
| c. Co^{2+} _____ | h. NO_2^- _____ |
| d. Li^+ _____ | i. CO_3^{2-} _____ |
| e. Ag^+ _____ | j. IO_3^- _____ |

Write the symbols and charges of the following ions.

- | | |
|----------------------|--------------------|
| 3. a. sodium _____ | f. phosphate _____ |
| b. thallium(I) _____ | g. iron(III) _____ |
| c. bromide _____ | h. sulfate _____ |
| d. nitride _____ | i. cyanide _____ |
| e. ammonium _____ | j. hydride _____ |

Write the names of the following ions.

- | | |
|------------------------------|------------------------------|
| 4. a. Ba^{2+} _____ | f. Sn^{2+} _____ |
| b. K^+ _____ | g. Hg^{2+} _____ |
| c. Pb^{4+} _____ | h. ClO_3^- _____ |
| d. Cs^+ _____ | i. OH^- _____ |
| e. Cu^{2+} _____ | j. SiO_3^{2-} _____ |

Write the symbols and charges of the following ions.

5. a. magnesium _____ f. carbide _____
b. manganese(II) _____ g. fluoride _____
c. aluminum _____ h. acetate _____
d. zinc _____ i. arsenate _____
e. chromium(III) _____ j. nitrate _____

Write formulas for the following compounds, using the tables in Chapter 7 and the Appendix of your textbook if you need help.

6. a. zinc chloride _____ i. copper(II) cyanide _____
b. lead(IV) oxide _____ j. hydrogen selenide _____
c. silver bromide _____ k. copper(I) nitride _____
d. sodium phosphate _____ l. nickel(II) acetate _____
e. magnesium sulfide _____ m. potassium arsenite _____
f. cobalt(II) fluoride _____ n. nickel(II) oxalate _____
g. barium oxide _____ o. gallium(III) acetate _____
h. calcium phosphide _____ p. ammonium chloride _____

Name the following compounds.

7. a. $\text{Pb}_3(\text{PO}_4)_2$ _____ g. HgI_2 _____
b. $\text{Cu}(\text{IO}_3)_2$ _____ h. AgNO_3 _____
c. Cr_2O_3 _____ i. CuSO_4 _____
d. $\text{Bi}_2(\text{SO}_4)_3$ _____ j. NaCl _____
e. RbNO_3 _____ k. CsClO _____
f. CaTe _____ l. $\text{Th}(\text{OH})_4$ _____