

Name _____

Period _____

Acid Base Nomenclature

1) Name the following binary acids:

a) HF _____

d) HI _____

b) HCl _____

e) H₂S _____

c) HBr _____

2) What are the names of the following acids containing the element bromine:

a) HBr _____

d) HBrO₃ _____

b) HBrO _____

e) HBrO₄ _____

c) HBrO₂ _____

3) What are the formulas of the following acids containing the element chlorine:

a) Hydrochloric acid _____

b) Hypochlorous acid _____

c) Chlorous acid _____

d) Chloric acid _____

e) Perchloric acid _____

4) What are the names of the following acids containing the element fluorine:

a) HF _____

d) HFO₃ _____

b) HFO _____

e) HFO₄ _____

c) HFO₂ _____

6) What are the names of the following oxy acids:

a) H_2SO_4 _____ b) H_2SO_3 _____

c) HNO_3 _____ d) HNO_2 _____

e) H_3PO_4 _____ f) H_3PO_3 _____

g) H_2CO_3 _____ h) H_2CO_2 _____

i) H_2CrO_4 _____ j) $\text{H}_2\text{Cr}_2\text{O}_7$ _____

k) $\text{HC}_2\text{H}_3\text{O}_2$ _____ l) $\text{H}_2\text{C}_2\text{O}_4$ _____

7) What are the names of the following bases:

a) NaOH _____ f) $\text{Mg}(\text{OH})_2$ _____

b) KOH _____ g) $\text{Ba}(\text{OH})_2$ _____

c) LiOH _____ h) $\text{Ca}(\text{OH})_2$ _____

d) AgOH _____ i) $\text{Be}(\text{OH})_2$ _____

e) CuOH _____ j) $\text{Fe}(\text{OH})_2$ _____

8) Name the following species that are very common in acid base reactions:

a) H_3O^+ _____

b) OH^- _____

c) NH_4^+ _____

d) NH_3 _____

e) H^+ _____