

1) What do the four corners stand for on an element symbol?

top left: \_\_\_\_\_ top right: \_\_\_\_\_

bottom left: \_\_\_\_\_ bottom right: \_\_\_\_\_

2) How many protons, neutrons, electrons, and atoms would be in each of the following?

$^{18}\text{F}^-$        $p^+ =$  \_\_\_\_\_       $n^0 =$  \_\_\_\_\_       $e^- =$  \_\_\_\_\_      atoms = \_\_\_\_\_

$^7\text{Li}^+$        $p^+ =$  \_\_\_\_\_       $n^0 =$  \_\_\_\_\_       $e^- =$  \_\_\_\_\_      atoms = \_\_\_\_\_

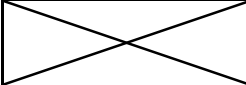
$^{36}\text{S}_8$        $p^+ =$  \_\_\_\_\_       $n^0 =$  \_\_\_\_\_       $e^- =$  \_\_\_\_\_      atoms = \_\_\_\_\_


$^{14}\text{C}^{4-}$        $p^+ =$  \_\_\_\_\_       $n^0 =$  \_\_\_\_\_       $e^- =$  \_\_\_\_\_      atoms = \_\_\_\_\_

$^{194}\text{Os}_5^{8+}$        $p^+ =$  \_\_\_\_\_       $n^0 =$  \_\_\_\_\_       $e^- =$  \_\_\_\_\_      atoms = \_\_\_\_\_

3) What's wrong with this symbol?  $^6_8\text{N}_2^{8+}$  \_\_\_\_\_

4) Complete the following charts by writing the formula of the compound formed when the two ions are combined.

	$\text{Cl}^-$	$\text{CO}_3^{2-}$	$\text{OH}^-$	$\text{NO}_3^-$
$\text{K}^+$				
$\text{Ca}^{2+}$				

	$\text{SO}_4^{2-}$	$\text{O}^{2-}$	$\text{PO}_4^{3-}$	$\text{CN}^-$
$\text{Al}^{3+}$				
$\text{Pb}^{4+}$				

5) What is the formula for the compounds made from the following ion pairs?

(a)  $\text{Cr}^{2+}$  and  $\text{O}^{2-}$  \_\_\_\_\_ (c)  $\text{Na}^+$  and  $\text{P}^{3-}$  \_\_\_\_\_

(b)  $\text{Mn}^{6+}$  and  $\text{I}^-$  \_\_\_\_\_ (d)  $\text{V}^{5+}$  and  $\text{O}^{2-}$  \_\_\_\_\_