

Warm-Up #19

Name: _____ Date: _____

1. How many electrons does S^{2-} have? _____
2. How many protons does Ba^{2+} have? _____
3. How many valence electrons does P have? _____
4. What will be the ion symbol (formula) of an ion with 35 protons and 36 electrons? _____
5. How many electrons does an ion have if it has 12 protons and a 2+ charge? _____
6. Which of the following will gain electrons to form an ion? a) sodium b) argon c) sulfur d) nitrogen
7. If an ion has 15 protons and 18 electrons, what will be its charge? _____
8. Name/write the formulas for the following compounds:

a. KF _____

e. calcium phosphate _____

b. Mg_3P_2 _____

f. dinitrogen heptaoxide _____

c. S_2F_4 _____

g. lead (II) nitride _____

d. $FeCO_3$ _____

h. sodium hydroxide _____

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9. Draw the Lewis structure for each compound below.

(a) BCl_3

(b) PF_3

10. Which element has the higher ionization energy, Ca or Se? Explain your reasoning.

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