

**Warm-Up #27**

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

10. Which element is more electronegative, K or Rb? Explain your reasoning.

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