Dot diagrams and symbols.

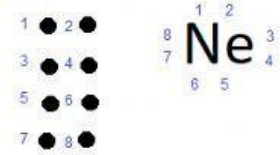
In the last unit we learned how to make dot diagrams. The Symbol is written with dots around it to represent the number of valence electrons you would expect that element to have. Use the Periodic Table to fine the symbol for each element.

Write the symbol and the correct dot diagram for each element.
Identify the family number and the elements expected oxidation number.

a. hydrogen

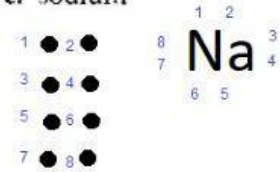
Family_____
Oxidation Number____

b. neon



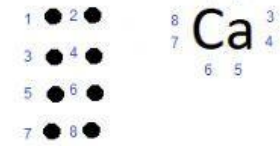
Family_____
Oxidation Number____

c. sodium



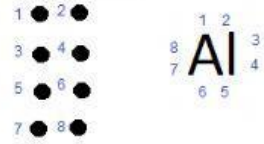
Family_____
Oxidation Number____

d. calcium



Family_____
Oxidation Number____

e. aluminum

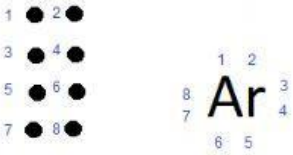


Family_____
Oxidation Number____

f. fluorine

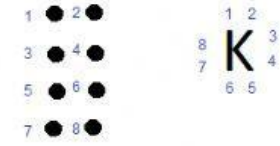
Family_____
Oxidation Number____

g. argon



Family_____
Oxidation Number____

h. potassium



Family_____
Oxidation Number____

Why do sodium and potassium have the same number of dots in their diagrams?

What does this tell you about the chemistry (chemical properties) of these two elements?