

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 find the symbol for each element.

Write the symbol and the correct dot diagram for each element.

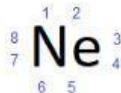
Identify the family number and the elements expected oxidation number.

a. hydrogen



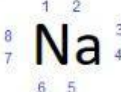
Family _____
Oxidation Number _____

b. neon



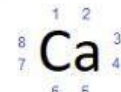
Family _____
Oxidation Number _____

c. sodium



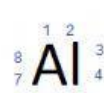
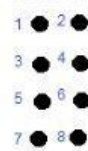
Family _____
Oxidation Number _____

d. calcium



Family _____
Oxidation Number _____

e. aluminum



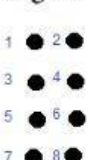
Family _____
Oxidation Number _____

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?