- Lewis Dot Symbols (Electron Dot Diagrams) are diagrams that represent the ______ electrons of an atom or ion.
 - □ For Main Group Elements, number of *valence electrons* = _____.
 - □ For Transition Metals, number of valence electrons = _____ + ____ electrons.

EXAMPLE: Which element will possess the most valence electrons?

a) S

b) Al

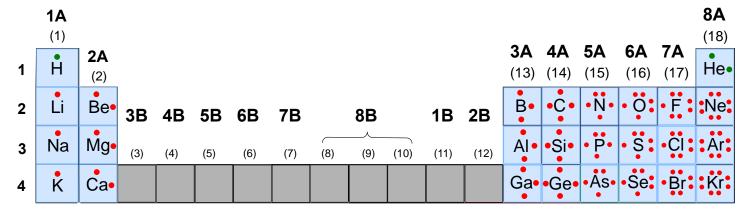
c) Ca

d) H

e) Br

Drawing Lewis Dot Symbols

- Element Symbol = the nucleus and _____ electrons
 Surrounding Dots = the ____ electrons.



EXAMPLE: Draw the Lewis Dot Symbol for the following element: Te

STEP 0: Identify the ______ of the Main Group Element.

□ _____ Transition Metals because their electronic arrangements cause unpredictable patterns.

STEP 1: Place one valence electron at a time on the four sides of the element.

□ Start from the _____ of the element and move clockwise.

STEP 2: Continue adding electrons, pairing them up until you have reached the appropriate number of valence electrons.

CONCEPT: LEWIS DOT SYMBOLS (SIMPLIFIED) **PRACTICE:** Draw the Lewis Dot symbol for the following element: Sr PRACTICE: Draw the Lewis Dot symbol for the following element: Pb **PRACTICE:** Draw the electron-dot symbol for the following element: Rn