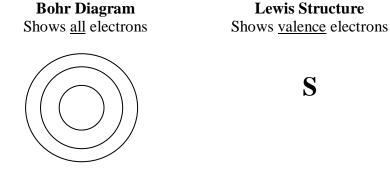
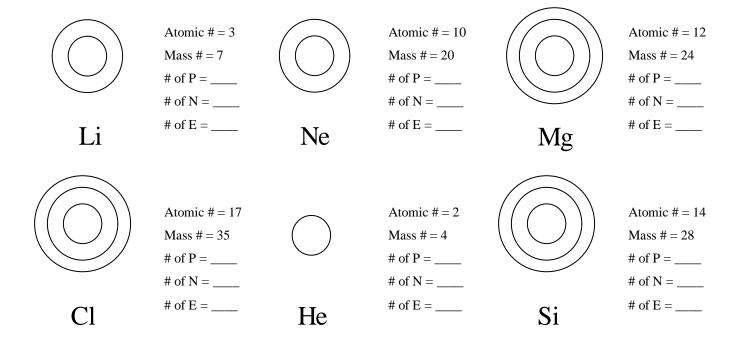
## **Part C: Electron Configuration**

- 12. How many electrons can each level hold? 1st = \_\_\_\_\_ 2nd = \_\_\_\_ 3rd = \_\_\_\_\_
- 13. What term is used for the electrons in the outermost shell or energy level?
- 14. Scientists use two types of diagrams to show the electron configuration for atoms. Follow your teacher's directions to complete the diagrams.

Sulfur
Atomic # = 16
Atomic Mass $= 32$
Protons =
Neutrons =
Electron =



15. Calculate the missing information and then draw the Bohr Diagram and Lewis Structure for each element.



- 16. Answer the questions below based on the elements in question #15.
- (1) Which elements had a filled outermost shell? \_\_\_\_\_
- (2) Which element would be most likely to lose electrons in a chemical bond?
- (3) Which element would be most likely to gain electrons in a chemical bond? \_\_\_\_\_
- (4) Which elements are not likely to bond with other elements? \_\_\_\_\_ Why? \_\_\_\_\_