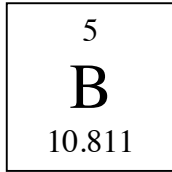


Physical Science  
Shell and Dot Diagrams WS

Name: \_\_\_\_\_  
Period: \_\_\_\_\_ Date: \_\_\_\_\_

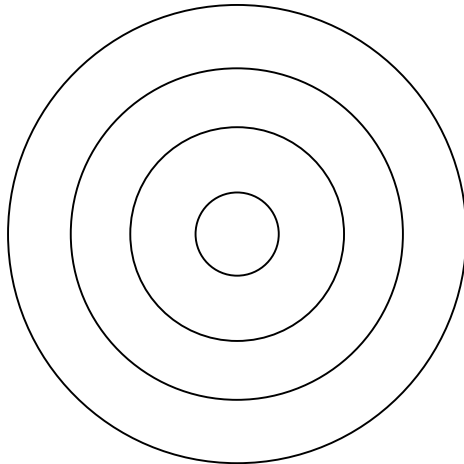
For the given elements fill in the blanks, draw the electron shell diagram, and draw the corresponding dot diagram. Be sure to include the number of protons and neutrons in addition the correctly placed electrons on the electron shell diagram.

1.



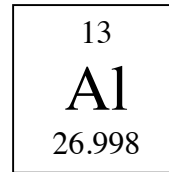
- a. Mass #: \_\_\_\_\_  
# protons: \_\_\_\_\_  
# neutrons: \_\_\_\_\_  
# electrons \_\_\_\_\_

b. electron shell diagram



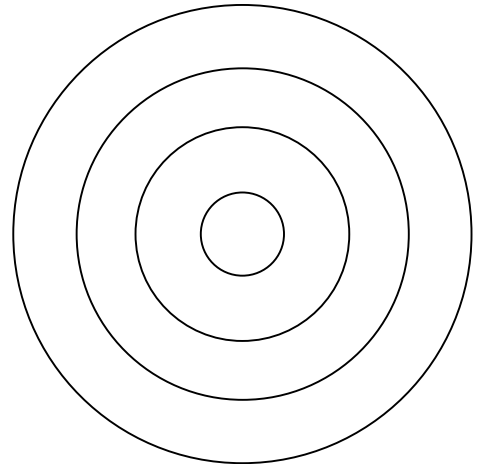
c. dot diagram

2.



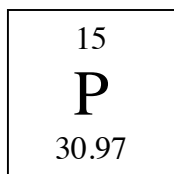
- a. Mass #: \_\_\_\_\_  
# protons: \_\_\_\_\_  
# neutrons: \_\_\_\_\_  
# electrons \_\_\_\_\_

b. electron shell diagram



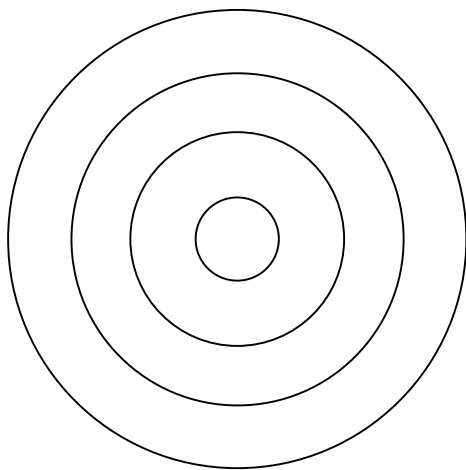
c. dot diagram

3.



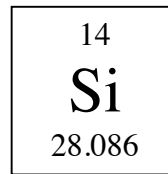
- a. Mass #: \_\_\_\_\_  
# protons: \_\_\_\_\_  
# neutrons: \_\_\_\_\_  
# electrons \_\_\_\_\_

b. electron shell diagram



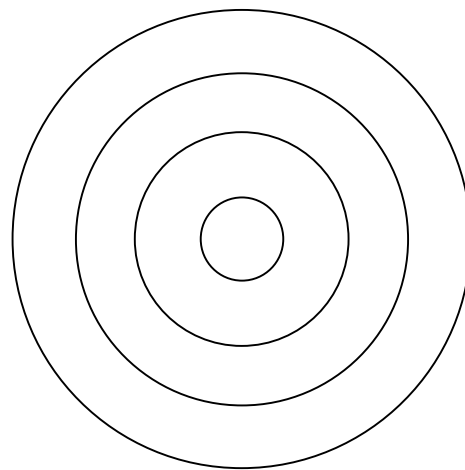
c. dot diagram

4.



- a. Mass #: \_\_\_\_\_  
# protons: \_\_\_\_\_  
# neutrons: \_\_\_\_\_  
# electrons \_\_\_\_\_

b. electron shell diagram



c. dot diagram

5. Write the dot diagrams for the following elements:

a. Cs

b. Ar

c. Pb

d. He

e. Ba

f. Ca

6. A certain element has 85 protons. What is the chemical symbol of the element? Draw the dot diagram.

7. A certain element has 14 neutrons and a mass number of 27. What is the chemical symbol of the element? Draw the dot diagram.