

1 Atomic Structure

1.1 atomic number and mass

1. The _____ is the number of _____ in the nucleus of an atom.

2. The _____ is the total number of _____ and _____ in the nucleus of an atom.

3.



What does the 1 mean?



4. What does the 4 mean?

5. What does the 2 mean?

6.



How many protons does Lithium have?

How many neutrons does Lithium have?

7.



based on this symbol, how many protons does Hydrogen have? _____

How many neutrons? _____

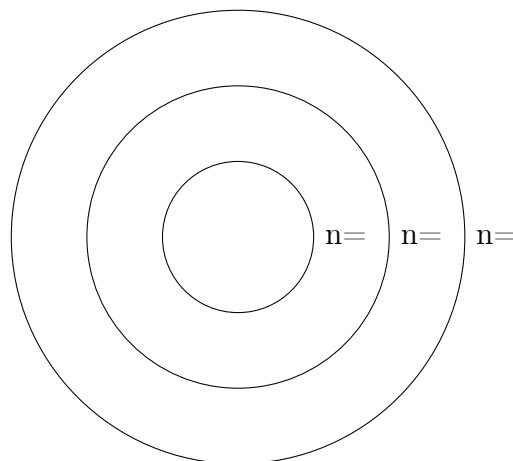
1.2 The Bohr model

8. The Bohr Model - Bohr proposed that an atom was a nucleus with electrons "orbiting" in different _____.

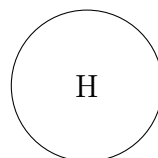
9. Electrons can only have certain energy values known as _____

1.3 Electron Configuration

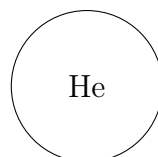
10. The electrons closest to the nucleus have the _____ energy, while those further from away have _____ energy.



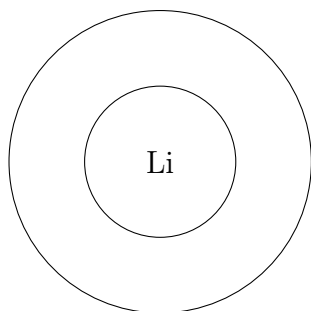
11. draw the electron configuration for H



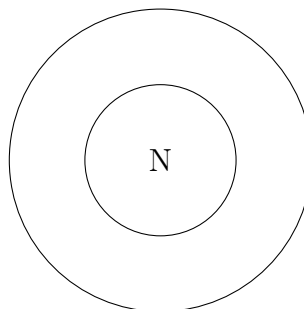
12. draw the electron configuration for He



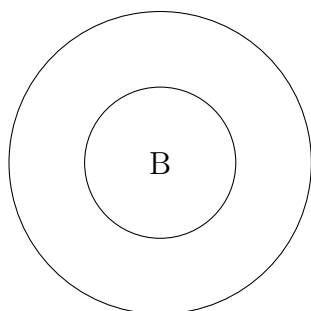
13. draw the electron configuration for Li



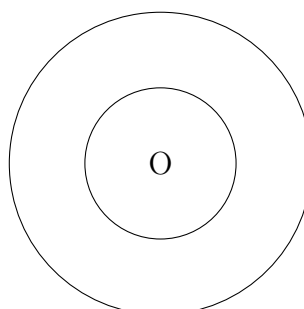
16. draw the electron configuration for Nitrogen N



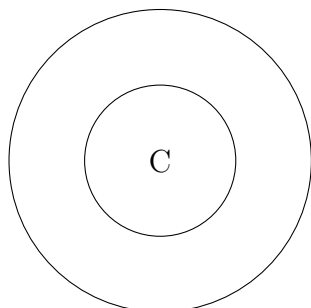
14. draw the electron configuration for Boron B



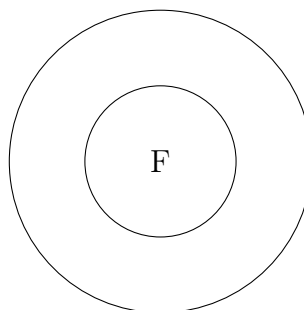
17. draw the electron configuration for Oxygen O



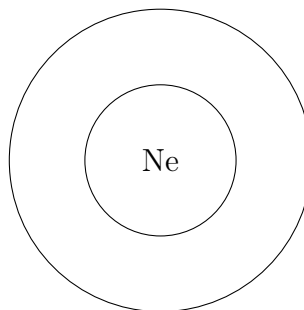
15. draw the electron configuration for Carbon C




18. draw the electron configuration for Fluorine F



19. draw the electron configuration for Neon Ne

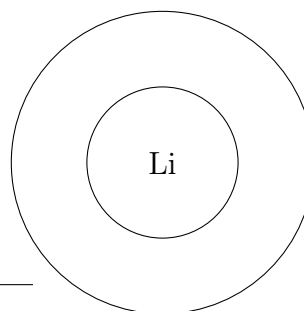


28. draw the electron configuration for He



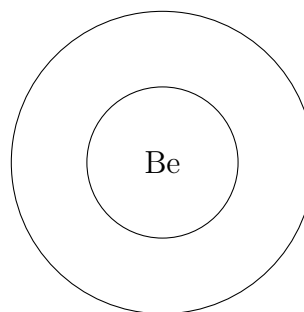
How many valence electrons does it have?

29. draw the electron configuration for Li



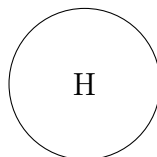
How many valence electrons does it have?

30. draw the electron configuration for Be



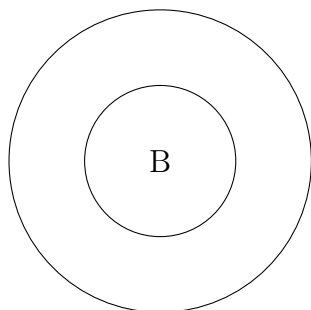
How many valence electrons does it have?

27. draw the electron configuration for H



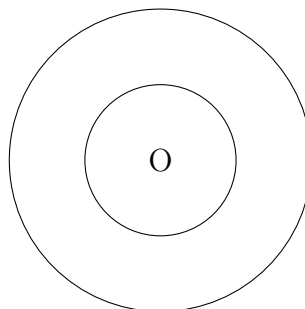
How many valence electrons does it have?

31. draw the electron configuration for Boron
B



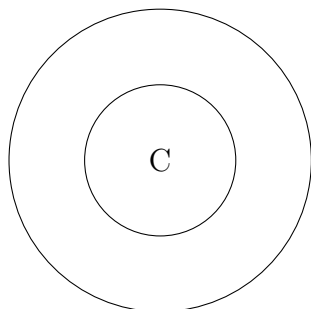
How many valence electrons does it have?

34. draw the electron configuration for Oxygen O



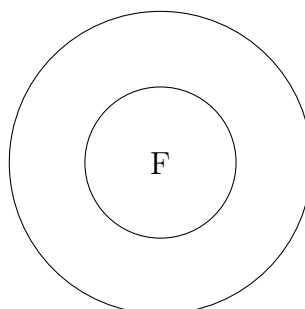
How many valence electrons does it have?

32. draw the electron configuration for Carbon C



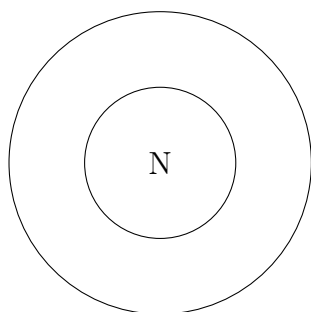
How many valence electrons does it have?

35. draw the electron configuration for Fluorine F



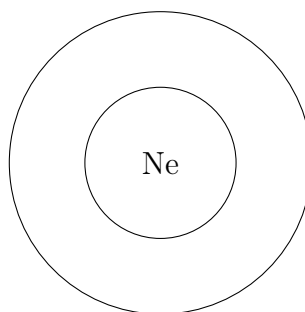
How many valence electrons does it have?

33. draw the electron configuration for Nitrogen N



How many valence electrons does it have?

36. draw the electron configuration for Neon Ne



How many valence electrons does it have?
