Chemistry: Bohr Atom Practice

Directions: For each of the following: 1) Fill in the atomic number, name, and atomic mass, 2) Determine the number of protons, neutrons, and electrons, and 3) Draw dots on the rings to show location of electrons

7

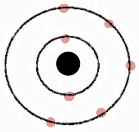
N-14

Nitrogen-14

14.007

P = 7 (+) N = 7 E = 7 (−)

○ Solid ○ Liquid ● Gas



$^{14}_{7}N$

13

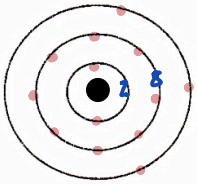
Al-27

Aluminum-27

26.982

P = 13 (+) N = 14 E = 13 (−)

● Solid ○ Liquid ○ Gas



$^{27}_{13}Al$

9

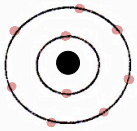
F-19

Fluorine-19

18.998

P = 9 N = 10 E = 9

○ Solid ○ Liquid ● Gas



$^{19}_{9}F$

n=1→2
n=2→7

18

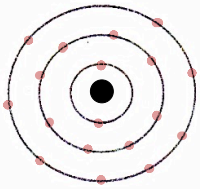
Ar-40

Argon-40

39.948

P = 18 N = 22 E = 18

○ Solid ○ Liquid ● Gas



$^{40}_{18}Ar$

n=1→2
n=2→8
n=3→8

14

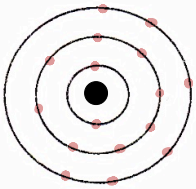
Si-30

Silicon-30

28.086

P = 14 N = 16 E = 14

● Solid ○ Liquid ○ Gas



$^{30}_{16}Si$

n=1→2
n=2→8
n=3→6

11

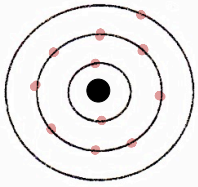
Na-23

Sodium-23

22.990

P = 11 N = 12 E = 11

● Solid ○ Liquid ○ Gas



$^{23}_{11}Na$

n=1→2
n=2→8
n=3→1

4

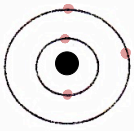
Be-9

Beryllium-9

9.012

P = 4 N = 5 E = 4

● Solid ○ Liquid ○ Gas



$^{9}_{4}Be$

n=1→2
n=2→2

8

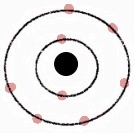
O-16

oxygen-16

15.999

P = 8 N = 8 E = 8

○ Solid ○ Liquid ● Gas



$^{16}_{8}O$

n=1→2
n=2→6

17

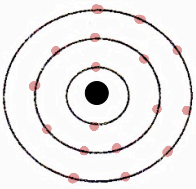
Cl-36

Chlorine-17

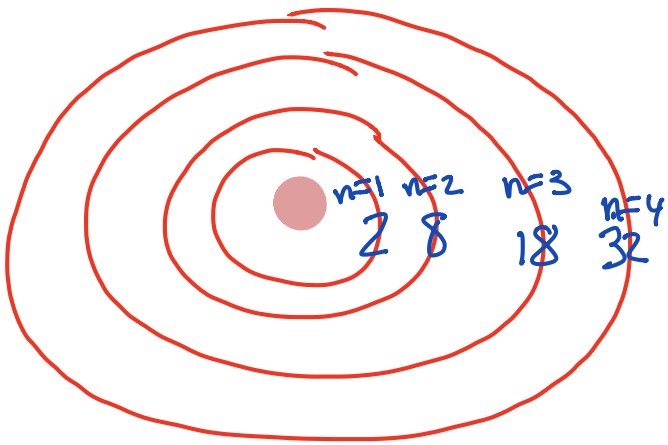
35.453

P = 17 N = 19 E = 17

○ Solid ○ Liquid ● Gas



$^{36}_{17}Cl$

n=1→2
n=2→8
n=3→7

$2n^2$