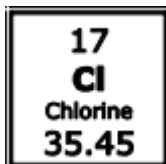


RQ Electron Arrangement

Name: _____

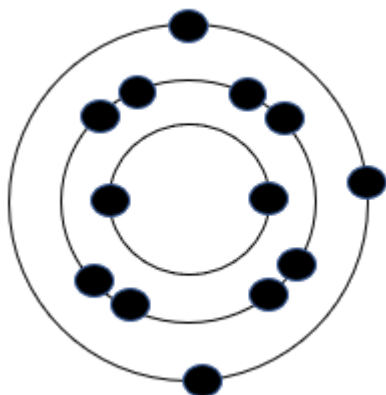
Date: _____

1.

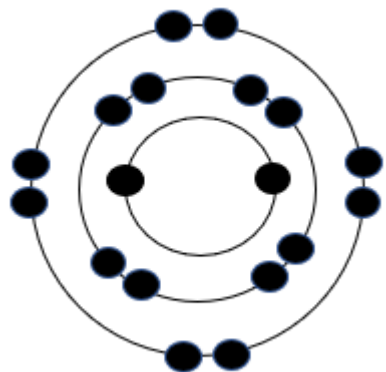


Which of the following shows the correct electron arrangement for chlorine?

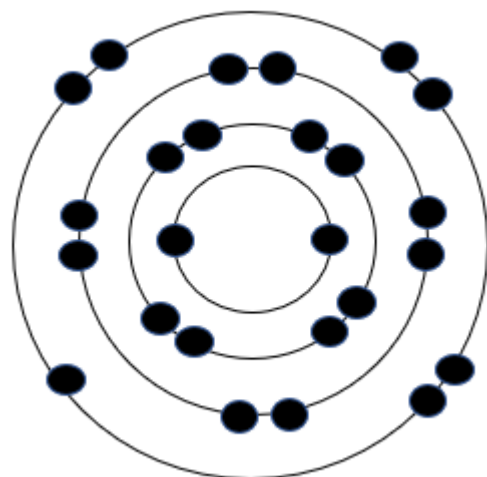
A.



B.

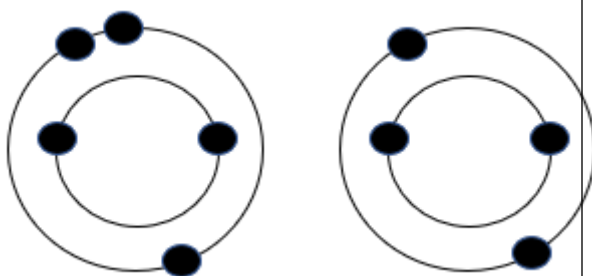


C.



D.

2.



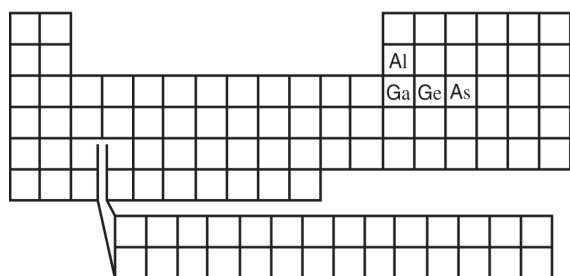
What do the above two elements have in common?

- A. They have the same number of electrons
- B. They would be found in the same column on the periodic table
- C. They would be found in the same row on the periodic table?
- D. They have the same number of protons

3. Which one of these scientists described a model of the atom that included energy levels?

- A. Dalton
- B. Bohr
- C. Newton
- D. Thomson

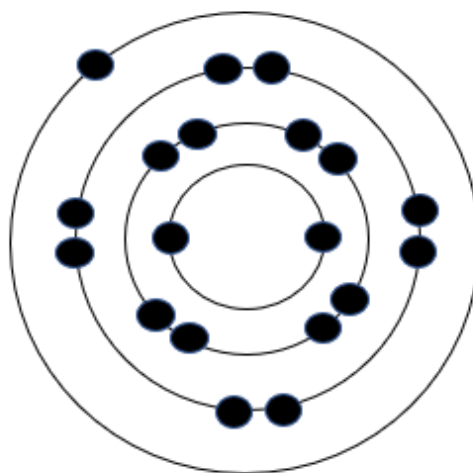
4. Periodic Table of the Elements



How many energy levels does Aluminum contain?

- A. 1
- B. 2
- C. 3
- D. 4

5.



Which element is represented in the above diagram?

- A.

11
Na
Sodium
22.99
- B.

20
Ca
Calcium
40.08
- C.

19
K
Potassium
39.10
- D.

18
Ar
Argon
39.95

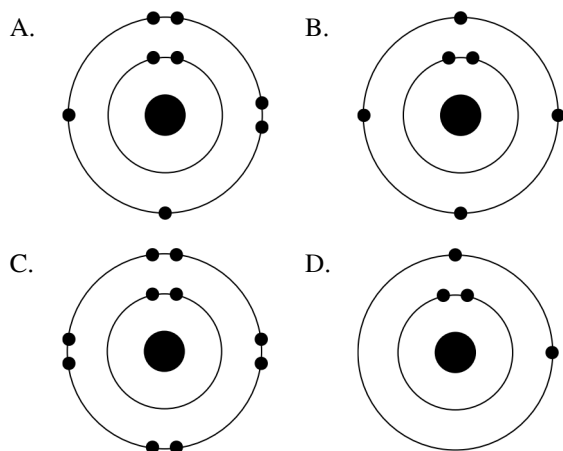
6. Which subatomic particle orbit around the nucleus in well defined energy levels?

- A. protons
- B. neutrons
- C. electrons

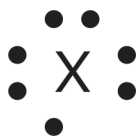
7. Which of the following atoms has six valence electrons?

- A. magnesium (Mg)
- B. silicon (Si)
- C. sulfur (S)
- D. argon (Ar)

8. An atom with which atomic diagram has chemical properties *most similar* to calcium?



9. This is an electron dot diagram:



Which element is represented?

- A. boron (B) B. phosphorus (P)
 C. sulfur (S) D. bromine (Br)

10.

6 Carbon C 12.011 2,4
14 Silicon Si 28.086 2,8,4
32 Germanium Ge 72.59 2,8,18,4
50 Tin Sn 118.69 2,8,18,18,4
82 Lead Pb 207.19 -18,32,18,4

What do all of the elements listed above have in common?

- A. They are metals.
 B. They are in the same period.
 C. They have the same number of electrons.
 D. They have four valence electrons.