



Name _____ Class _____ Date _____

- 1 Silicon (Si) and Boron (B) are called **metalloids** because they _____.
- A always act as metals
 - B always act as nonmetals
 - C act as both metals and nonmetals
 - D do not act like metals or nonmetals

- 3 Carbon (C) has **four** electrons in its valence shell. **How many more** electrons does carbon need to have a **full valence shell**?
- A 2 more
B 4 more



- 2 An atom with an **atomic mass** of 12 and an **atomic number** of 5 has how many neutrons?
- A 7
 - B 5
 - C 12
 - D 17



- 4 Why are argon (Ar) and krypton (Kr) considered **noble gases**?
- A they do not react with other elements
 - B they only react with metals



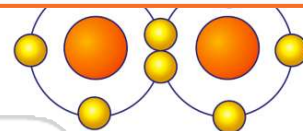
PREVIEW

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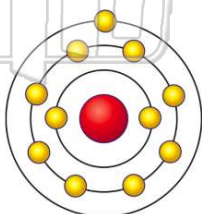
- 7
- A top
 - B left side
 - C bottom
 - D right side



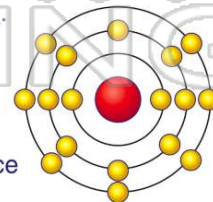
- A true
- B false



- 9 Sodium (Na) is on the **left** side of the periodic table because it **always acts as** a _____.
- A metal
 - B nonmetal
 - C metalloid
 - D noble gas



- 10 Chlorine (Cl) is called a **nonmetal** because it _____.
- A has a luster
 - B conducts electricity
 - C has seven valence electrons
 - D does not react with other elements





ANSWER KEY

Silicon (Si) and Boron (B) are called **metalloids** because they _____.

- A** always act as metals
- B** always act as nonmetals
- C** act as both metals and nonmetals
- D** do not act like metals or nonmetals

(C)

An atom with an **atomic mass** of 12 and an **atomic number** of 5 has how many neutrons?

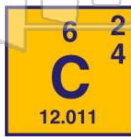
- A** 7
- B** 5
- C** 12
- D** 17



(a)

Carbon (C) has **four** electrons in its valence shell. **How many more** electrons does carbon need to have a **full valence shell**?

- A** 2 more
- B** 4 more
- C** 8 more



(b)

Why are argon (Ar) and krypton (Kr) considered **noble gases**?

- A** they do not react with other elements
- B** they only react with metals
- C** they only react with nonmetals

18	2	He	1
10	10	Ne	2
16	16	Ar	3
36	36	Kr	4
54	54	Xe	5
86	86		

(a)



PREVIEW

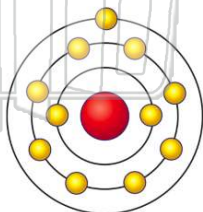
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- C** bottom
- D** right side



Sodium (Na) is on the **left** side of the periodic table because it **always acts as** a _____.

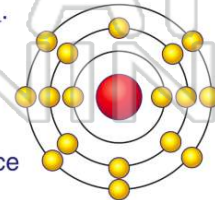
- A** metal
- B** nonmetal
- C** metalloid
- D** noble gas



(a)

Chlorine (Cl) is called a **nonmetal** because it _____.

- A** has a luster
- B** conducts electricity
- C** has seven valence electrons
- D** does not react with other elements



(c)