

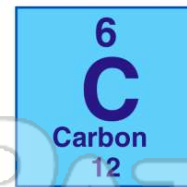


Name _____ Class _____ Date _____

- 1 Which statement about the **mass of an electron** is correct?
- A The mass of an electron is equal to the mass of a proton.
 - B The mass of an electron is less than the mass of a proton.
 - C The mass of an electron is equal to the mass of a neutron.
 - D The mass of an electron is greater than the mass of a neutron.

- 2 How many electrons are in the **outermost principal energy level** of an atom of **carbon** in the ground state?

- A 6
- B 2
- C 3
- D 4

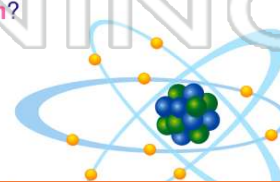


- 3 In which group do the particles contain **only nucleons**?

- A protons and electrons
- B neutrons and electrons
- C protons and neutrons
- D protons, neutrons, and electrons

- 4 What is the **most probable location** of an **electron**?

- A an orbital
- B a nucleus
- C a sublevel
- D a principal



PREVIEW

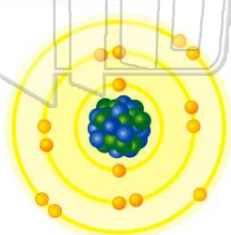
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- 5 In Group 18, how many atoms are in 2.00 moles of atoms?
- B 2.00 atoms
 - C 1.20×10^{24} atoms
 - D 6.02×10^{23} atoms

- B moving from a lower to a higher principal energy level
- C being lost by the Ne(g) atoms
- D being gained by the Ne(g) atoms

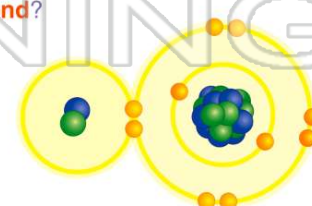
- 9 Which atom in the ground state has **three half-filled orbitals**?

- A P
- B Si
- C Al
- D Li



- 10 Which particles may be **gained, lost, or shared** by an atom when it forms a **chemical bond**?

- A protons
- B electrons
- C neutrons
- D nucleons





ANSWER KEY

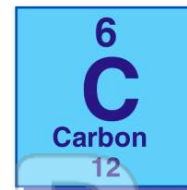
Which statement about the **mass of an electron** is correct?

- A The mass of an electron is equal to the mass of a proton.
- B The mass of an electron is less than the mass of a proton.
- C The mass of an electron is equal to the mass of a neutron.
- D The mass of an electron is greater than the mass of a neutron.

(b)

How many electrons are in the **outermost principal energy level** of an atom of **carbon** in the ground state?

- A 6
- B 2
- C 3
- D 4



(d)

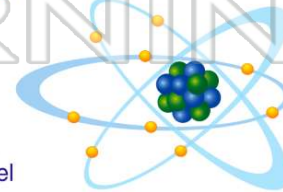
In which group do the particles contain **only nucleons**?

- A protons and electrons
- B neutrons and electrons
- C protons and neutrons
- D protons, neutrons, and electrons

(c)

What is the **most probable location** of an **electron**?

- A an orbital
- B a nucleus
- C a sublevel
- D a principal energy level



(a)

In
G
h
A
B
C
D



PREVIEW

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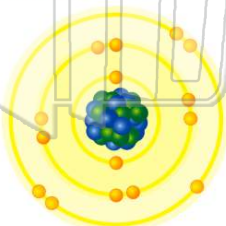
- C 1.20×10^{24} atoms
- D 6.02×10^{23} atoms

energy level

- C being lost by the Ne(g) atoms
- D being gained by the Ne(g) atoms

Which atom in the ground state has **three half-filled orbitals**?

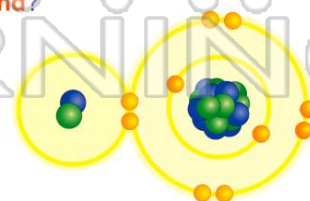
- A P
- B Si
- C Al
- D Li



(a)

Which particles may be **gained, lost, or shared** by an atom when it forms a **chemical bond**?

- A protons
- B electrons
- C neutrons
- D nucleons



(b)