

11
Na
Sodium
22.99

Atomic Number = _____

Atomic Mass = _____

of protons = _____

of neutrons = _____

of electrons = _____

- Protons and neutrons are located in the _____
- Electrons are located in the _____
- Valence electrons are electrons in the _____ energy level.
- A bohr model will show _____.
- An electron dot model will show _____

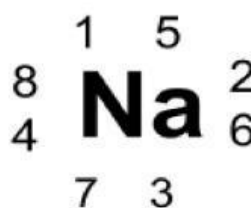
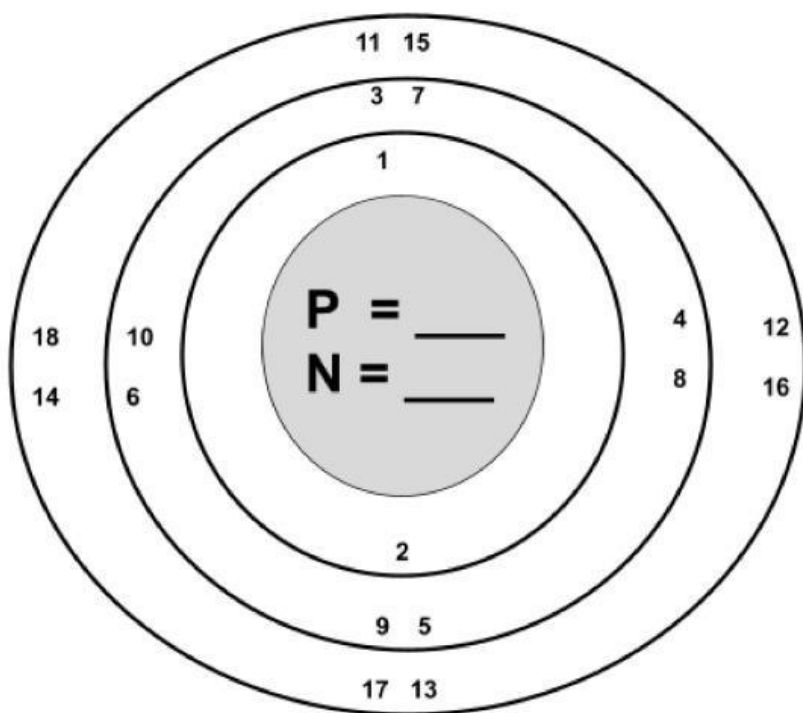
Longhand Electron configuration: _____

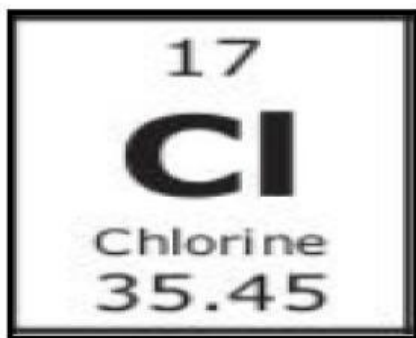
Select correct orbital diagram $1S \uparrow\downarrow 2S \uparrow\downarrow 2P \uparrow\downarrow \uparrow\downarrow \uparrow\downarrow 3S \uparrow\downarrow 3P \uparrow _ _$
 $1S \uparrow\downarrow 2S \uparrow\downarrow 2P \uparrow\downarrow \uparrow\downarrow \uparrow\downarrow 3S \uparrow$

Noble Gas Electron configuration: _____

Draw a Bohr Model

Draw an electron dot model





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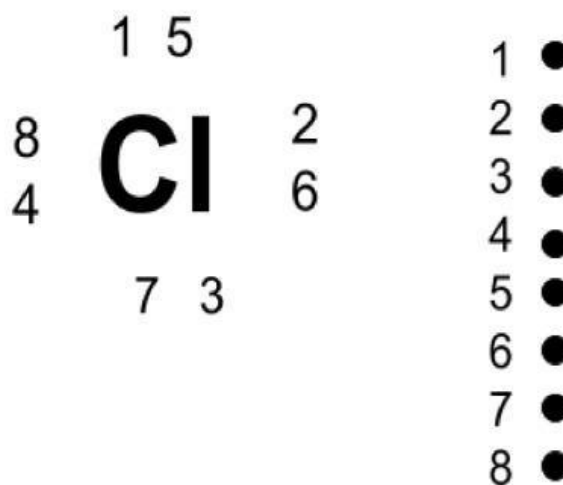
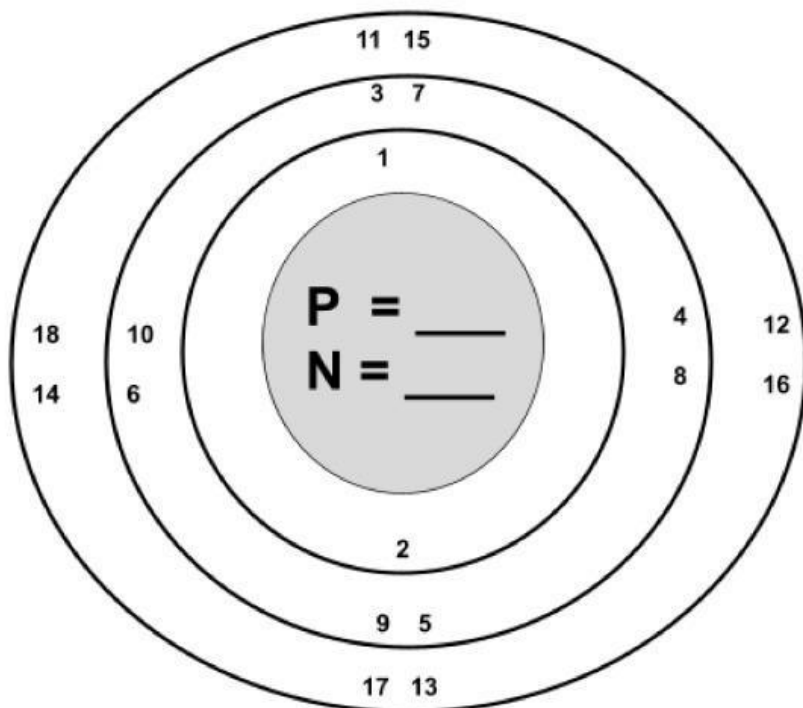
Longhand Electron configuration: _____

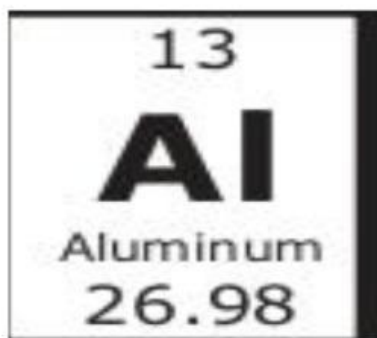
Select correct orbital diagram:
 1S ↑↓ 2S ↑↓ 2P ↑↓ ↑↓ ↑↓ 3S ↑↓ 3P ↑↓ ↑↓ ↑
 1S ↑↓ 2S ↑↓ 2P ↑↓ ↑↓ ↑↓ 3S ↑↓ 3P ↑↓ ↑ ↑

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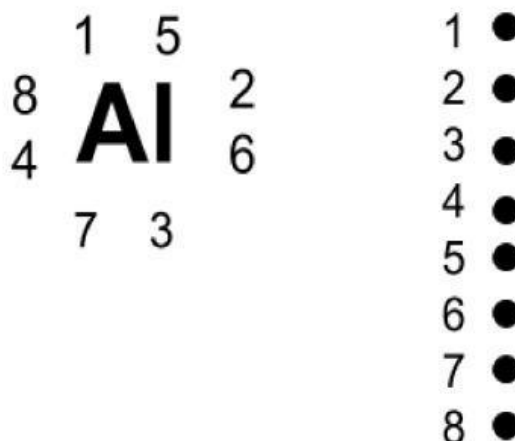
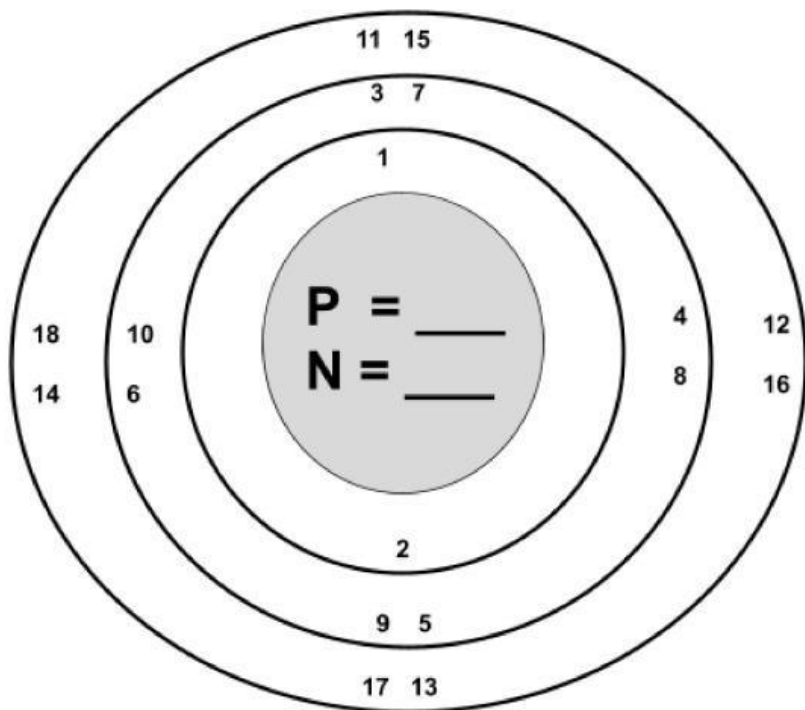
Longhand Electron configuration: _____

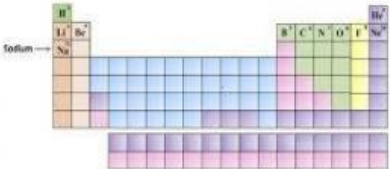
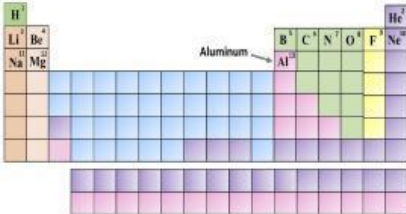
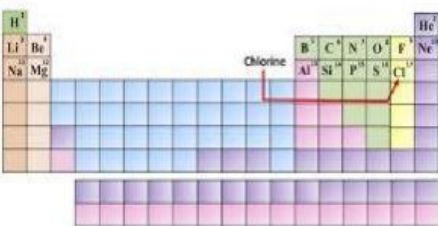
Select correct orbital diagram: $1S \uparrow\downarrow 2S \uparrow\downarrow 2P \uparrow\downarrow \uparrow\downarrow \uparrow\downarrow 3S \uparrow\downarrow 3P \uparrow\downarrow \uparrow$ ____
 $1S \uparrow\downarrow 2S \uparrow\downarrow 2P \uparrow\downarrow \uparrow\downarrow \uparrow\downarrow 3S \uparrow\downarrow 3P \uparrow \uparrow \uparrow$

Noble Gas Electron configuration: _____

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Draw an electron dot model



Element location on PT	Matching Bohr Model
The Periodic Table of the Elements  The Periodic Table of the Elements  The Periodic Table of the Elements 	

What connection do you see between the rows on the periodic table and the placement of electrons in the bohr model?

