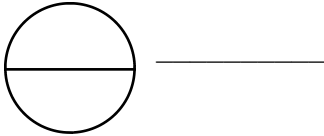


Atomic Structure Diagrams
use "Be" as an example

name: _____
Mark all NOBLE gases with the words "complete orbitals".

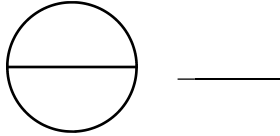
1 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



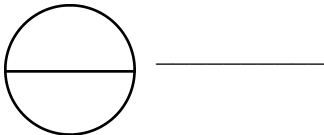
2 - Helium - He

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



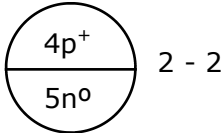
3 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



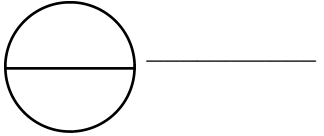
4 - Beryllium - Be

At. Mass 9 amu
p⁺ - 4p⁺ _____
n⁰ = 5n⁰ _____
e⁻ = 4e⁻ _____



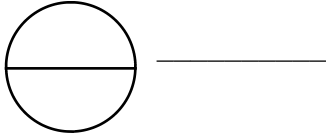
5 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



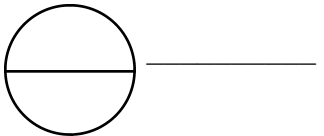
6 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



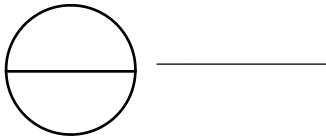
7 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



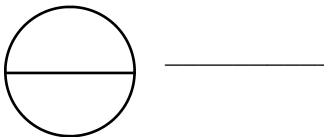
8 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



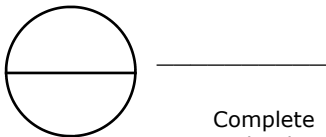
9 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



10 - _____ - ____

At. mass _____
p⁺ _____
n⁰ _____
e⁻ _____



Complete orbitals

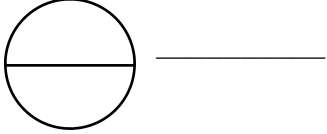
write neatly,

11 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

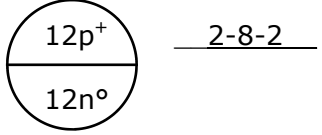


12 - magnesium—Mg

At. mass 24
p⁺ - 12

n⁰ 12

e⁻ 12

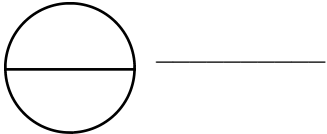


13 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

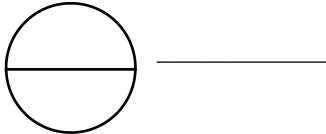


14 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

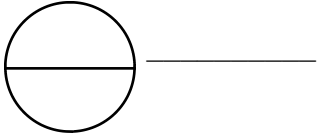


15 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

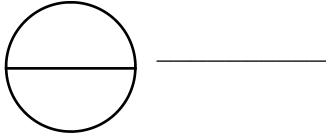


16 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

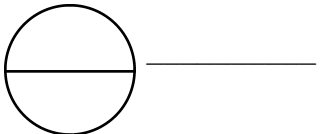


17 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

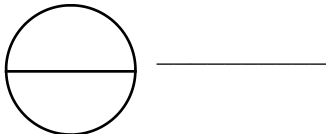


18 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

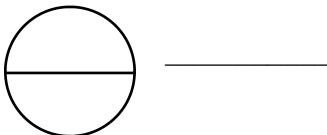


19 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____

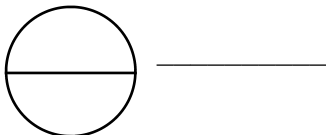


20 - _____ - ____

At. mass _____
p⁺ _____

n⁰ _____

e⁻ _____



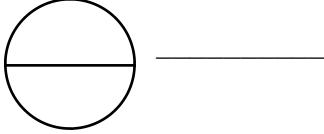
write neatly,

28 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

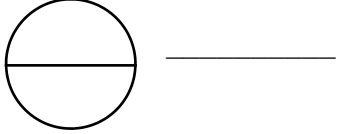


29 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

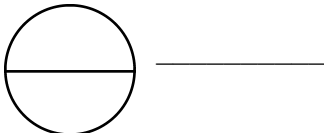


30 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

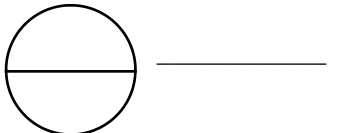


35 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

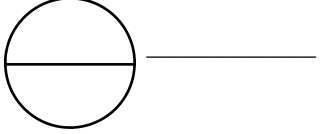


36 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

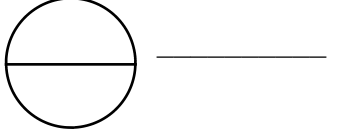


41 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

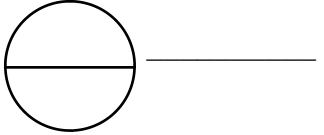


47 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

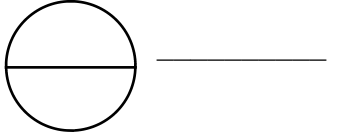


50 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

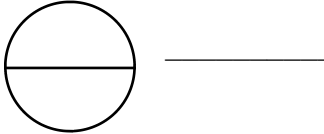


51 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

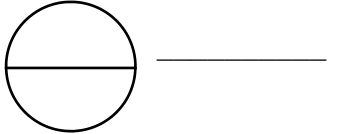


53 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____



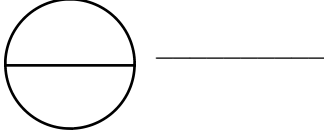
write neatly,

54 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

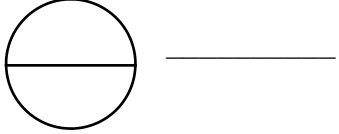


56 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

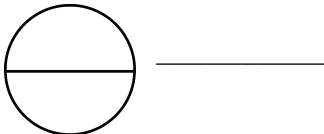


74 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

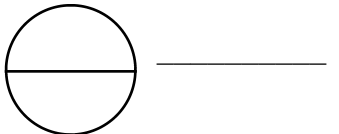


79 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

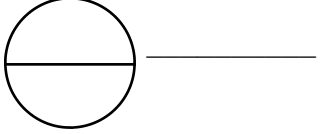


80 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

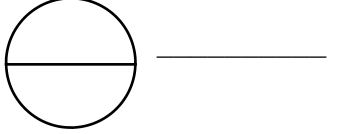


82 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

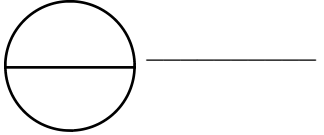


83 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

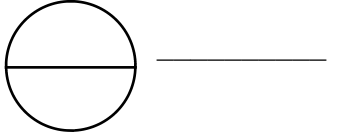


84 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____

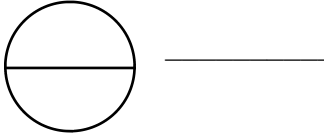


86 - _____ - ____

At. mass
p⁺ _____

n⁰ _____

e⁻ _____



List the symbols of all atoms with complete outer electron orbitals.

What is your FAVORITE element? _____

How many p⁺, n⁰, and e⁻ does it have?

_____ p⁺ _____ n⁰ _____ e⁻