

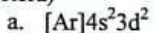
1s22s2 To Lewis Dot

Clemistry: <http://genest.weebly.com>
 Stop in for help every day at lunch and Tues, & Thurs after school!

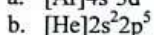


My Name _____
 Name _____
 Period _____

1. Rewrite the following Noble Gas Abbreviations in the longer version of electron configuration (1s² 2s² etcetera)



1s²2s²2p⁶3s²3p⁶4s²3d² = 22 electrons

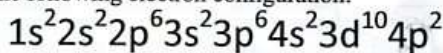


1s²2s²2p⁵ = 9 electrons

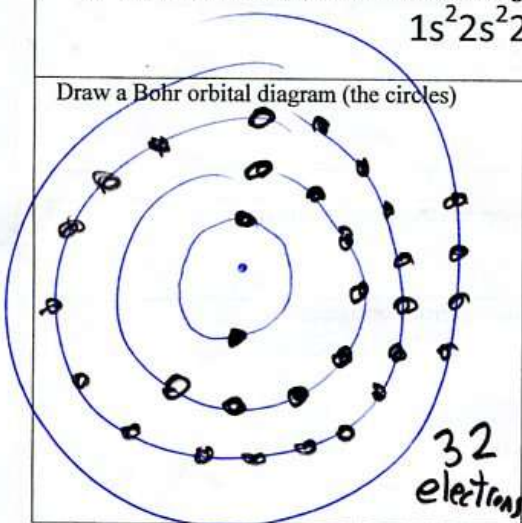
c. Write the Lewis Dot symbol for each of the two atoms above:



2. for a NEUTRAL atom with the following electron configuration:



Draw a Bohr orbital diagram (the circles)



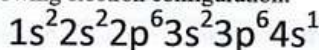
Write a Lewis dot diagram (Letter and dots)



This atom has 4 valence e- therefore it is (stable / unstable)

because it "wants" 8 valence e-

3. for a NEUTRAL atom with the following electron configuration:



Tell how many e- are in each energy level

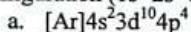
1st: 2 2nd: 8 3rd: 8 4th: 1 5th: 0

This atom has one valence e- therefore it is (stable / unstable)

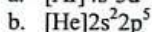
Write a Lewis dot diagram (Letter and dots)



4. With the help of your Rewrite the following Noble Gas Abbreviations in the longer version of electron configuration (1s² 2s² etcetera)



1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁴

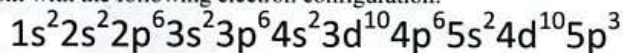


1s² 2s² 2p⁵

c. Write the Lewis Dot symbol for each of the two atoms above:



5. for a NEUTRAL atom with the following electron configuration:



Tell how many e- are in each energy level

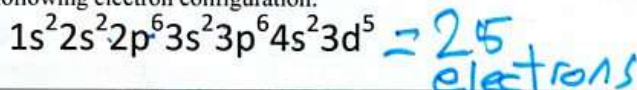
1st: 2 2nd: 8 3rd: 18 4th: 18 5th: 5

This atom has 5 valence e-
therefore it is (stable / unstable)

Write a Lewis dot diagram (Letter and dots)



6. for a NEUTRAL atom with the following electron configuration:



Tell how many e- are in each energy level

1st: 2 2nd: 8 3rd: 18 4th: 2 5th: 0

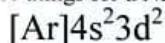
This atom has 2 valence e-
therefore it is (stable / unstable)

Write a Lewis dot diagram (Letter and dots)

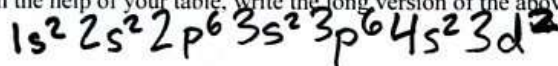


= 25 protons

7. Do three things for a NEUTRAL atom with the following electron configuration:



With the help of your table, write the long version of the above electron configuration.



Tell how many e- are in each energy level

1st: 2 2nd: 8 3rd: 10 4th: 2 5th: 0

This atom has 2 valence e-
therefore it is (stable / unstable)

Write a Lewis dot diagram (Letter and dots)



8. for a NEUTRAL atom with the following electron configuration:



nucleus

Tell how many e- are in each energy level

1st: 2 2nd: 8 3rd: 6 4th: 0 5th: 0

This atom has 6 valence e-
therefore it is (stable / unstable)

Write a Lewis dot diagram (Letter and dots)

