**Atoms: Periodic Trends: Quiz 5c**

/5

Please show work where necessary!

1. Identify each element as a **metal**, **metalloid**, or **nonmetal**.
   1. Oxygen
   2. Lithium
2. Which block (s, p, d, or f) are the Lanthanides found?
3. Circle the element with the largest atomic radius and put a square around the element with the smallest atomic radius: **Na Rb Fr H**
4. Circle the element with the highest electronegativity and put a square around the element with the lowest electronegativity: **Na Rb Fr H**
5. Circle the element with the highest ionization energy and put a square around the element with the lowest ionization energy: **Na Rb Fr H**

Answers:

1. Identify each element as a **metal**, **metalloid**, or **nonmetal**. (1/2 mark each)
   1. Oxygen **nonmetal**
   2. Lithium  **metal**
2. Which block (s, p, d, or f) are the Lanthanides found? **F**
3. Circle the element with the largest atomic radius and put a square around the element with the smallest atomic radius: **Na Rb Fr H**

*Atomic radius increases as you go down a group. All four elements are in group 1. Francium is at the bottom of group 1, and hydrogen is the closest to the top.*

1. Circle the element with the highest electronegativity and put a square around the element with the lowest electronegativity: **Na Rb Fr H**

*Electronegativity decreases as you go down a group. All four elements are in group 1. Francium as at the bottom of group 1, and hydrogen is the closest to the top*



1. Circle the element with the highest ionization energy and put a square around the element with the lowest ionization energy: **Na Rb Fr H**

*Ionization energy decreases as you go down a group. All four elements are in group 1. Francium as at the bottom of group 1, and hydrogen is the closest to the top.*