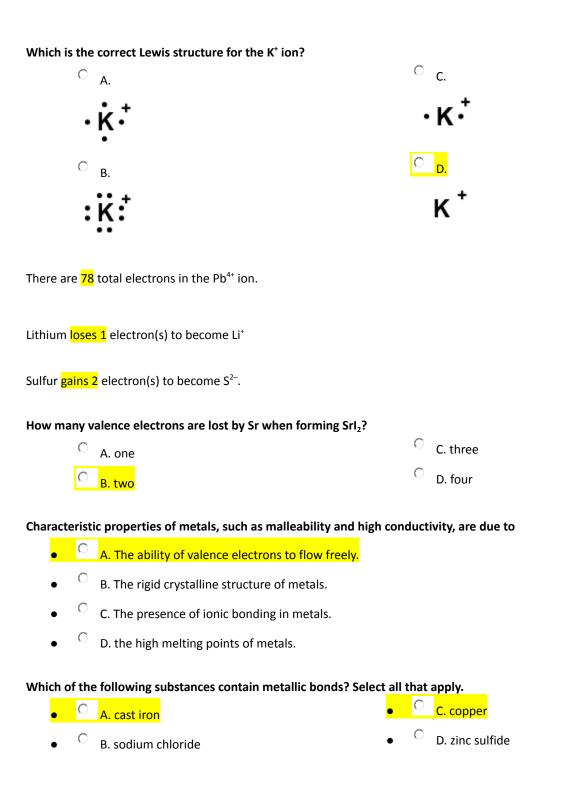
How many electrons does calcium donate to sulfur when calcium and sulfur form an ionic bond? 2

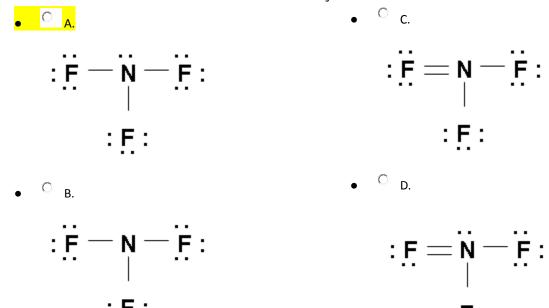


In covalent bonds, atoms share electrons so that ______. Select all that apply.

- A. each atom attains the stable electron configuration of a noble gas.
- B.positive and negative ions are formed.
- C. each atom obeys the octet rule.
- D. the positive and negative charges of the atoms cancel each other out.

In a water molecule, the highly electronegative oxygen atom partially pulls the bonding electrons away from hydrogen, forming a polar covalent bond

Select the correct electron dot structure for a molecule of NF₃.



Sucrose has a low melting point. This compound exhibits relatively weak intermolecular forces.

 CO_2 has a low boiling point of -78°C. What can be inferred about the strength of the intermolecular forces between molecules of CO_2 ?

- A. The intermolecular forces are strong.
- B. The intermolecular forces are weak.
- C. The intermolecular forces are ionic.
- D. The boiling point cannot help predict the forces present.

What is the formula for the compound calcium nitrate that forms when calcium ions react with the nitrate ions?

- A. CaNO₃
- B. Ca(NO₃)₂

•	0	C. CaNO ₂
•	\circ	D. Ca(NO ₂) ₂

What is the name of the compound P_4O_{10} that forms when elemental phosphorus is exposed to oxygen?

- A. phosphorus oxide
- B. phosphorus decaoxide
- C. decaphosphorus tetraoxide
- D. tetraphosphorus decaoxide