

Skill Practice 25

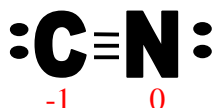
Formal Charge Practice

Name: _____

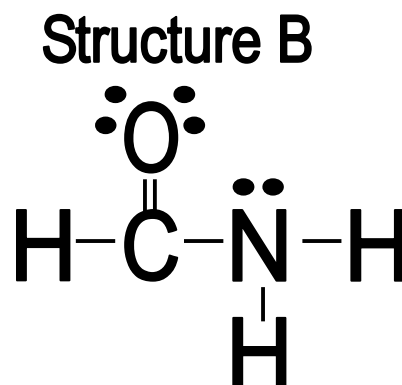
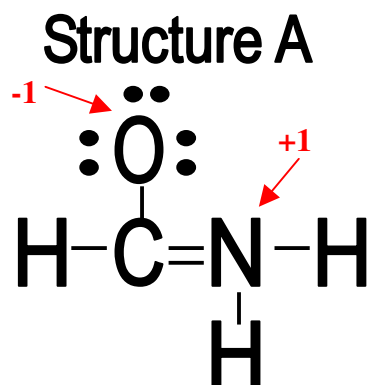
Date: _____

Hour: _____

1. Examine the structure for the cyanide ion, CN^{1-} below. Label the formal charge of each of the atoms.



2. Consider the following two structures for CHNH_2O ?



- A) Are both of the structures legitimate structures? I.e. Do all atoms have eight electrons? Are the right number of electrons used?

Both structures are legitimate.

- B) Label each of the atoms in both structures with their appropriate formal charges.

(see above: all nonzero charges are labeled)

- C) Which structure—A or B—is the best structure for CHNH_2O ? Explain.

B is best because it has the fewest nonzero formal charges.

3. Draw a structure for ClO_3^{1-} . Label the formal charge of each atom.

