Skill Practice 30

Formal Charge Practice

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hour: \_\_\_\_\_

1. Examine the structure for the cyanide ion, CN1- below. Label the formal charge of each of the atoms.

C

N

1. Consider the following two structures for CHNH2O?

Structure B

Structure A

H

H

H

C

N

O

H

H

H

C

N

O

* 1. Are both of the structures legitimate structures? I.e. Do all atoms have eight electrons? Are the right number of electrons used?
  2. Label each of the atoms in both structures with their appropriate formal charges.
  3. Which structure—A or B—is the best structure for CHNH2O? Explain.

1. Draw a structure for ClO31-. Label the formal charge of each atom.