

This quiz is take-home and open book, and it is intended that all members of the group contribute to completing it. It is a violation of the Academic Honor Code to sign a quiz that you did not work on. **The quiz is due at the end of class on Thursday, October 12.**

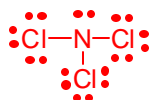
List names in alphabetical order, and give social security numbers! Put names on all pages, and staple pages together

Points

(6) 1. For the following molecular compounds, indicate the total number of valence electrons required for a Lewis dot structure, then draw the Lewis dot structure:

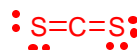
(a) NCl_3 (N is central atom)

26 electrons



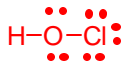
(b) CS_2 (C is central atom)

16 electrons



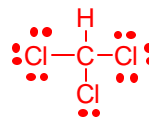
(c) HOCl (O is central atom)

14 electrons



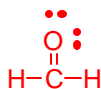
(d) Chloroform, CHCl_3 (C is central atom)

26 electrons



(e) Formaldehyde, CH_2O (C is central)

12 electrons



(e) Hydrogen cyanide, HCN (C is central)

10 electrons

