

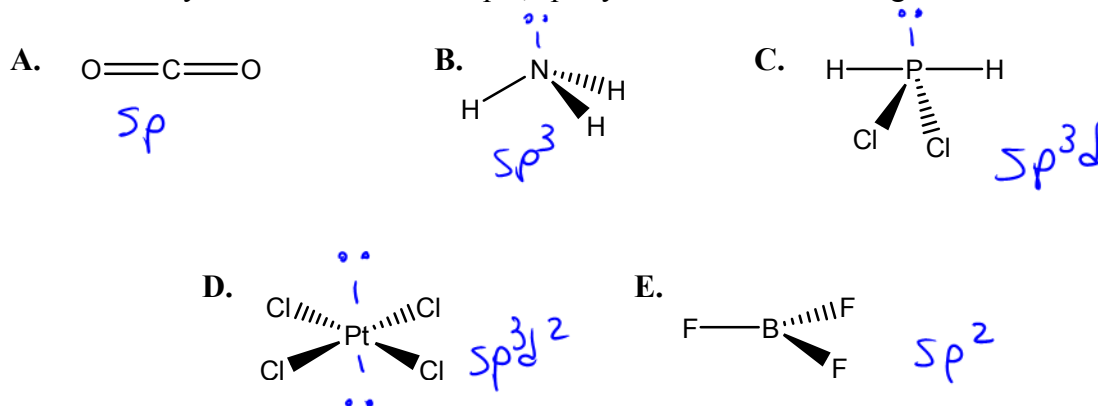
Molecular Structure Ranking Tasks

Hybridization II

Name: Key

Score: _____

Rank the central atom of each species from greatest to lowest hybridization per the following instructions. The value for any hybridization is the total number of orbitals involved in the hybridization. For example, sp^2 hybridization would be given the value 3.



Greatest 1 D 2 C 3 B 4 E 5 A Least

Explain your reasoning below.

The molecular geometries displayed must be "converted" to electronic geometry, which represents the hybridization fully. For B, C, and C, I've added the e^- pairs to show the electronic geometry. From there I count the # e^- domains to determine the # of hybrid orbitals necessary.

Circle the response that best describes your confidence in your answer above.

(Basically Guessed) 1 2 3 4 5 (Positive you get it)