

Bonding Worksheet

1) Write the formula for a compound formed from:

- a) Li and Se
- b) Ba and Cl
- c) K and F
- d) Sr and S
- e) Al and O

2) Draw Lewis dot structures for:

- a) POH
- b) CO₂
- c) SI₂
- d) BCl₃
- e) BeCl₂
- f) XeH₄
- g) BrF₃

3) How many valence electrons are in ClO₃⁻? Draw the dot structure of ClO₃⁻ (hint: two of the O's are double-bonded and one is single-bonded to the central Cl atom). Assign formal charges to each atom in this molecule. Does this compound have resonance structures? If so, draw them and the resonance hybrid.