

Practice Problems – Sept. 18, 2019

1. Provide the chemical name or formula for each compound below.
  - a. lithium carbonate
  - b.  $\text{P}_4\text{O}_6$
  - c.  $\text{V}_2\text{O}_3$
  - d. silicon tetrachloride
  
2. Draw the best Lewis structure(s) for each of the following, including equivalent resonance structures, if appropriate. Calculate formal charges on all atoms.
  - a. HCN
  - b.  $\text{CO}_3^{2-}$
  - c.  $\text{SNO}^-$ 
    - i. Which is the central atom, S or N? Draw structures for both atom arrangements and use FCs to decide.
    - ii. For your chosen atom arrangement, identify the structure that best depicts bonding. Use FCs to justify your answer.