Lewis Diagram Refresher

- Start by finding the total sum of valence electrons
- Determine which atom is central
- Next, draw single bonds connecting to the central atom
- Assign the remainder of valence electrons to atoms as lone pairs
- Turn into double/triple bonds if needed to satisfy the octet rule

1. How many valence electrons are in the following molecules?
    a. SO_3
    b. H_2O
    c. BeF_2
    d. PBr_5
    e. CCl_4

2. Determine the central atom in the following molecules:
    a. SO_3
    b. H_2O
    c. BeF_2
    d. PBr_5
    e. CCl_4

3. Draw the Lewis diagram for the following molecules:

    a. SO_3

b. H2O

c. BeF2

d. PBr5

e. CCl4