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

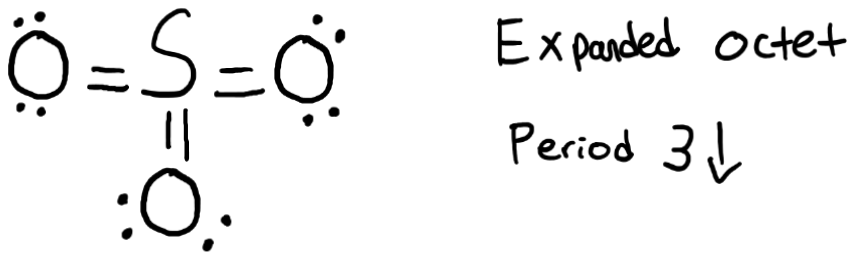
Answer Key:

1. How many valence electrons are in the following molecules?
    a. SO3- 24
    b. H2O- 8
    c. BeF2- 16
    d. PBr5- 40
    e. CCl4- 32

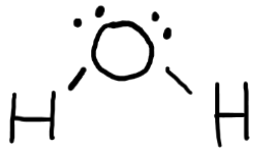
2. Determine the central atom in the following molecules:
    a. SO3
    b. H2O
    c. BeF2
    d. PBr5
    e. CCl4

1. Draw the Lewis diagram for the following molecules:

    a. SO3

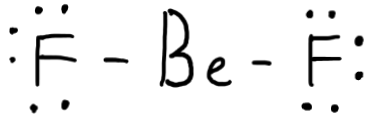


b. H2O



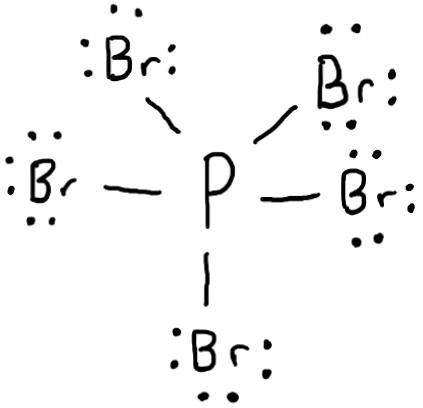
Hydrogen: duet

c. BeF2



Octect exception

d. PBr5



e. CCl4

