

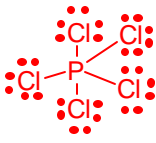

Minute Quiz 3

Key

1. Give the molecular formula (including the charge) for the following polyatomic anions: $\frac{1}{2}$ pt formula, $\frac{1}{2}$ pt charge

- (a) sulfite SO_3^{2-}
(b) bicarbonate HCO_3^- (or 1^-)
(c) phosphate PO_4^{3-}
(d) perchlorate ClO_4^- (or 1^-)
(e) iodate IO_3^- (or 1^-)

2. Draw Lewis dot structures for the following:

- (a) CO $:\text{C}=\text{O}:$
(b) CO₂ $:\ddot{\text{O}}=\text{C}=\ddot{\text{O}}:$
(c) PCl₅ 
(d) BH₃ 

3. Which compounds in question 2 violate the octet rule? **PCl₅ and BH₃**