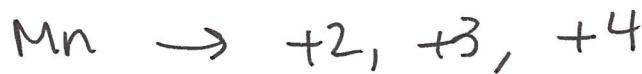
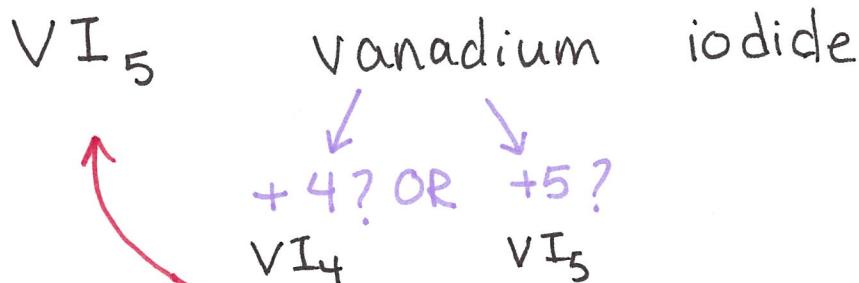


Naming Multivalent Metals

metals that have more than 1 charge

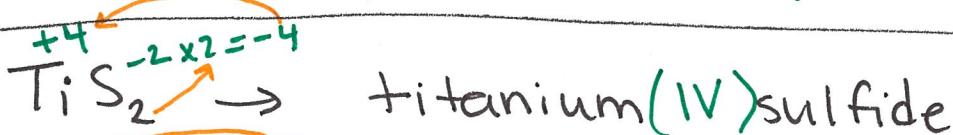


so which one do we use??!!



Based on formula Iodine has a charge of -1. There are 5 iodines, which totals a charge of -5 so... vanadium has to have a charge of +5 to equal that of iodine.

To indicate which charge is used we use roman numerals in parentheses after the metal in question.



Practice questions (answers below)

(8)

- ① CoI_2
- ② NiO
- ③ MoS_3
- ④ RuO_2
- ⑤ Cu_3P
- ⑥ Titanium (IV) oxide
- ⑦ ~~Mn₃N₂~~
manganese (III) nitride
- ⑧ ~~Ruthium (III) selenide~~
ruthenium
- ⑨ gold (I) chloride
- ⑩ manganese (IV) phosphide

DON'T PEAK → ANSWERS ↓

- ① Cobalt (II) iodide
- ② nickel (II) oxide
- ③ molybdenum (III) sulfide
- ④ ruthenium (^{IV}~~III~~) ~~oxide~~
- ⑤ copper (I) phosphide
- ⑥ TiO_2
- ⑦ MnN
- ⑧ Ru_2Se_3
- ⑨ AuCl
- ⑩ Mn_3P_4