Noteset 2C (Part 2)

Transition Metal Ionic Bonding w/ Reducing

Reducing with Cross Method

The "whole number ratio" includes at least one prime number. (Can only be : by itself or 1)

Ex: Al Cl3 Al=203

Prime 1,2,3,5,7,11,13, etc

Non-Prime numbers can be reduced (like fractions)

$$\frac{2}{4} \div \frac{2}{2} \frac{1}{2}$$

Formulas can also be reduced

$$5i_2$$
 0_4 = not a prime # can both $\div 2$

Doing the Cross Method

(8th) Al and P (5th)

+3

-3

Al P

$$W_{b}^{b+}$$
 and $O_{+b}^{(b+)}$ $+b$ -2 W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2} W_{b}^{-2}

1A: +1 2A: +2 3A: +3 5A: -3 6A: -1 Trans: given