**Name That Transitional Metal Binary Ionic Compound**

Metals lose electrons in chemical reactions to form positive cations:

**Ionic** Compounds—M transfers e- to NM

Group **IA**—1 valence e- e.g. Na atom 🡪 **Charge = \_\_\_\_\_\_\_\_\_**

Group **IIA**—2 valence e- e.g. Mg atom 🡪 **Charge = \_\_\_\_\_\_\_\_\_**

Group **IIIA**—3 valence e- e.g. Al atom 🡪 **Charge = \_\_\_\_\_\_\_\_\_**

But…the **B block Metals** can lose different numbers of electrons so there has to be a way to indicate the charge on the Metal ion.

Please go get me some sodium chloride from the storage room?

Please go get me some iron chloride from the storage room? Oh Oh!!

**Given the formula—name the cpd:**

**FeCl2 FeCl3**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CuO Cu2O**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Given the name—indicate the formula:**

**The Roman numeral indicates the** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The Roman numeral indicates the** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Nickel (II) nitride Nickel (III) nitride**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lead (II) sulfide Lead (IV) sulfide**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_