**BLM 1-37 Multiple Ion Charges**

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| **Formula** | **Ions** | **Name** | **Number of Atoms** |
| FeBr2 | Fe2+ (1 x +2 = +2)  Br- (2 x -1 = -2) | iron (II) bromide | 3 |
| FeBr3 | Fe3+  Br - | iron (III) bromide | 4 |
| Cu3N | Cu+ 2( 3 x +1= +3)  N3- 1(1 x -3 = -3) | copper(I) nitride | 4 |
| AuCl3 | Au3+ (1 x +3 = +3)  Cl- (3 x -1 = -3) | gold (III) chloride | 4 |
| Pb3P4 | Pb4+ (3 x +4 = +12)  P3- (4 x -3 = -12) | lead (IV) phosphide | 7 |
| PbS | Pb2+ (1 x +2 = +2)  S2- (1 x -2 = -2) | lead (II) sulphide | 2 |
| NiBr3 | Ni3+ (1 x +3 = +3)  Br- (3 x -1 = -3) | nickel (III)bromide | 4 |
| MnS2 | Mn4+ (1 x +4 =+4)  S2- (2 x -2 = -4) | manganese (IV) sulphide | 3 |
| UI6 | U6+ (1 x +6 = +6)  I - (6 x -1 = -6) | uranium (VI) iodide | 7 |
| ReF7 | Re7+ (1 x +7 = +7)  F-  (7 x -1 = -7) | rhenium (VII) fluoride | 8 |
| TiN | Ti3+ (1 x +3 = +3)  N3- (1 x -3 = -3) | titanium (III) nitride | 2 |
| CoO | Co2+  O2- | cobalt (II) oxide | 2 |
| CuSe | Cu2+  Se2- | copper (II) selenide | 2 |
| Au2S | Au+ (2 x +1 = +2)  S2- (1 x -2 = -2) | gold (I) sulphide | 3 |
| SnI4 | Sn4+ (1 x +4 = +4)  I- (4 x -1 = -4) | tin (IV) iodide | 5 |
| V3P5 | V5+ (3 x +5 = +15)  P3- (5 x -3 = -15) | vanadium (V) phosphide | 8 |