

- Complete the following table.

Formula	Oxidation state of transition metal	Coordination number of transition metal	Number of <i>d</i> -electrons in metal in complex ion	Species formed upon dissolving in water
$K_2[Ni(CN)_4]$	+2	4 (square planar)	8	$K^+(aq)$, $[Ni(CN)_4]^{2-}(aq)$
$[Cr(NH_3)_5Cl]Cl_2$	+3	6	3	$[CrCl(NH_3)_5]^{2+}(aq)$, $Cl^-(aq)$
$[Co(en)_3]Br_3$	+3	6	6	$[Co(en)_3]^{3+}(aq)$, $Br^-(aq)$

en = ethylenediamine = $NH_2CH_2CH_2NH_2$

