

28 Ligands and complexes – Part 2

—Answers

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Work through these after trying the questions yourself.

28.6 A species with a lone pair that bonds to a central metal ion.

28.7 A dative (coordinate) covalent bond.

28.8 Two.

28.9 The number of dative bonds from the ligands to the central ion.

28.10 Octahedral.

28.11 Each bidentate ligand makes two dative bonds, so three of them make $3 \times 2 = 6$ bonds. The coordination number is 6, so the complex is octahedral.