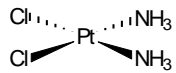
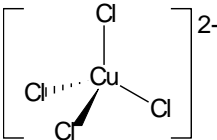
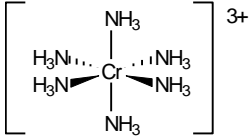


gridlocks – can you unlock the grid?

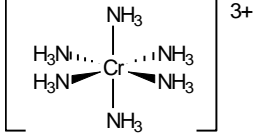
Complex ion shapes

Before you answer the puzzles below fill in the table of shapes of complex ions using:

when ligand is large	tetrahedral	4	square planar	silver(I) complexes
shape	example		when formed	coordination number
linear	$[\text{NC—Ag—CN}]^-$			2
			platinum(II) complexes	4
				
octahedral			most common	6

Gridlock 1

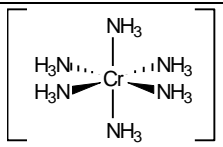
Each row, column and 2 x 2 box contains information about the four complex ion shapes. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

shape		example	
linear			
	octahedral	$[\text{NC—Ag—CN}]^-$	
			linear
		square planar	
	example		shape

gridlocks – can you unlock the grid?

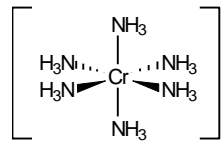
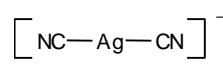
Gridlock 2

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

shape		example	
square planar			
			
		2	
	when ligand is large		
when formed		coordination number	

Gridlock 3

Each row, column and 2 x 2 box contains information about each of the four alloys in the table.

shape		example	
	linear		
			
platinum(II) complexes			4
when formed		coordination number	

gridlocks – can you unlock the grid?