

Electron Pair and Molecular Geometries Part 2 Answer Key

Compound	Lewis Structure	# of bonds on central atom	# of lone pairs (or single e-) on central atom	Electron Pair Geometry	Molecular Shape
BrF₅		5	1	Octahedral	Square pyramidal
IF₄⁺		4	1	Trigonal bipyramidal	Seesaw
IF₄⁻		4	2	Octahedral	Square planar
BrO₂		2	1 (and 1 single electron)	Tetrahedral	Bent
SO₃		3	1	Trigonal Planar	Trigonal planar
XeO₄		4	0	Tetrahedral	Tetrahedral
XeBr₅⁻		5	1	Octahedral	Square Pyramidal