

# Molecular Geometry Practice

Name: \_\_\_\_\_

<b>FORMULA</b>	<b>LEWIS STRUCTURE</b>	<b>CENTRAL ATOM</b>	<b>VSEPR</b>
<b>1) NH<sub>4</sub><sup>+</sup></b>  <b>Total # Val e<sup>-</sup></b> _____		<b>TOTAL # e<sup>-</sup> Pairs</b>	<b>Electron Pair Geometry (EPG)</b>
		<b># BONDED Pairs</b>	<b>Molecular Geometry (MG)</b>
		<b># LONE Pairs</b>	<b>A.B.E VSEPR Term</b>
<b>2) BF<sub>3</sub></b>  <b>Total # Val e<sup>-</sup></b> _____		<b>TOTAL # e<sup>-</sup> Pairs</b>	<b>Electron Pair Geometry (EPG)</b>
		<b># BONDED Pairs</b>	<b>Molecular Geometry (MG)</b>
		<b># LONE Pairs</b>	<b>A.B.E VSEPR Term</b>
<b>3) CCl<sub>4</sub></b>  <b>Total # Val e<sup>-</sup></b> _____		<b>TOTAL # e<sup>-</sup> Pairs</b>	<b>Electron Pair Geometry (EPG)</b>
		<b># BONDED Pairs</b>	<b>Molecular Geometry (MG)</b>
		<b># LONE Pairs</b>	<b>A.B.E VSEPR Term</b>
<b>4) CH<sub>2</sub>O</b>  <b>Total # Val e<sup>-</sup></b> _____		<b>TOTAL # e<sup>-</sup> Pairs</b>	<b>Electron Pair Geometry (EPG)</b>
		<b># BONDED Pairs</b>	<b>Molecular Geometry (MG)</b>
		<b># LONE Pairs</b>	<b>A.B.E VSEPR Term</b>

<b>FORMULA</b>	<b>LEWIS STRUCTURE</b>	<b>CENTRAL ATOM</b>	<b>VSEPR</b>
5) $\text{NH}_3$  Total # Val e <sup>-</sup> _____		TOTAL # e <sup>-</sup> Pairs	Electron Pair Geometry (EPG)
		# BONDED Pairs	Molecular Geometry (MG)
		# LONE Pairs	A.B.E VSEPR Term
6) $\text{SO}_4^{2-}$  Total # Val e <sup>-</sup> _____		TOTAL # e <sup>-</sup> Pairs	Electron Pair Geometry (EPG)
		# BONDED Pairs	Molecular Geometry (MG)
		# LONE Pairs	A.B.E VSEPR Term
7) $\text{SO}_3$  Total # Val e <sup>-</sup> _____		TOTAL # e <sup>-</sup> Pairs	Electron Pair Geometry (EPG)
		# BONDED Pairs	Molecular Geometry (MG)
		# LONE Pairs	A.B.E VSEPR Term
8) $\text{PF}_5$  Total # Val e <sup>-</sup> _____		TOTAL # e <sup>-</sup> Pairs	Electron Pair Geometry (EPG)
		# BONDED Pairs	Molecular Geometry (MG)
		# LONE Pairs	A.B.E VSEPR Term