

1. Determine the formula of the ionic compounds given the following elements. Name each compound.

	Formula	Name
a) cesium (Cs) and fluorine	_____	_____
b) calcium and sulfur	_____	_____
c) potassium and nitrogen	_____	_____
d) aluminum and sulfate	_____	_____
e) ammonium and nitrate	_____	_____
f) carbon and bromine	_____	_____

2. Draw the Lewis structure for the following compounds



3. Draw and name six structural isomers for the compound C_8H_{18} . (Be sure to clearly show all bonds between carbon and hydrogen.)

4. Are there any structural isomers of the compound C_9H_{20} with a parent chain five carbons long? If so draw an example and name the compound. If there are no structural isomers with a parent chain of five carbons, briefly explain why.