

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 5G – Molar Mass Conversions (*Part 2*)

20 Points

For the following calculate the molar mass and convert the following measurements

Aluminum Oxide [Al_2O_3]		
Element	#	Molar Mass
Aluminum (Al)		
Oxygen (O)		
Aluminum Oxide (Al_2O_3)		

Convert 120.0g Al_2O_3 to mol Al_2O_3	
Mol Al_2O_3	

Copper(II)Nitride [Cu_3N_2]		
Element	#	Molar Mass
Copper (Cu)		
Nitrogen (N)		
Copper(II)Nitride [Cu_3N_2]		

Convert 82.3g Cu_3N_2 to mol Cu_3N_2	
Mol Cu_3N_2	

Vanadium(III) Fluoride [VF_3]		
Element	#	Molar Mass
Vanadium (V)		
Fluorine (F)		
Vanadium(III) Fluoride (VF_3)		

Convert 1.40mol VF_3 to mass VF_3	
Mass VF_3	

Tin(IV)Bromide [SnBr_4]		
Element	#	Molar Mass
Tin (Sn)		
Bromine (Br)		
Tin(IV)Bromide [SnBr_4]		

Convert 2.50mol SnBr_4 to mass SnBr_4	
Mass SnBr_4	

Silver(I)Sulfide [Ag ₂ S]		
Element	#	Molar Mass
Silver (Ag)		
Sulfur (S)		
Silver(I)Sulfide [Ag ₂ S]		

Convert 156.3g Ag ₂ S to mol Ag ₂ S	
Mol Ag ₂ S	

Tungsten(VI) Oxide [WO ₃]		
Element	#	Molar Mass
Tungsten (W)		
Oxygen (O)		
Tungsten(VI) Oxide [WO ₃]		

Convert 3.25mol WO ₃ to mass WO ₃	
Mass WO ₃	