Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 5F – Molar Mass Conversions (*Part 1*) 20 Points

For the following use the given molar mass to perform the following conversions

Molar Mass A (*Conversion*): 1mol A (*mol*) = Mass A (*g*)

Remember to show both *units* and *labels* for each part of the conversion process!

Conversion

48.2g Na *

quan. unit label

(mass)

→ mol Na *

unit label

1mol Na = MMgNa

Convert 48.2g Na to mol Na	
Molar Mass Na	22.99 PT g/mol
48.2 g Na *	1 mol Na *
	22.99 g Na *
mol Na	2.10 mol Na

Convert 3.29mol Pb to mass Pb	
Molar Mass Pb	207.2 g/mol
3.29 mol Pb *	207.2 g Pb *
	1 mol Pb
mass Pb	681.69 g Pb

1mol Pb = 207.2 g Pb

Periodic Table

Convert 329.58g Ag to mol Ag	
Molar Mass Ag	g/mol
mol Ag	

Convert 0.83mol Cr to mass Cr	
Molar Mass Cr	g/mol
mass Cr	

Convert 25.4g Sr to mol Sr	
Molar Mass Sr	g/mol
mol Sr	

Convert 1.81mol Br to mass Br	
Molar Mass Br	g/mol
mass Br	

quan unit label

Convert 374.2g W to mol W	PT
Molar Mass W	183.84 g/mol
374.2 g W	1 mol W
	183.84 g W
mol W	2.04 mol W

end 1 mol W / MM g W start

Convert 0.472mol Ra to mass Ra	
Molar Mass Ra	226 g/mol
0.472 mol Ra	226 g Ra
	1 mol Ra
mass Ra	106.67 g Ra

end MM g Ra / 1 mol Ra start

Convert 372.5g Ag to mol Ag	
Molar Mass Ag	g/mol
mol Ag	

Convert 32.74mol Cr to mass Cr	
Molar Mass Cr	g/mol
mass Cr	