

Name \_\_\_\_\_ Period \_\_\_\_\_

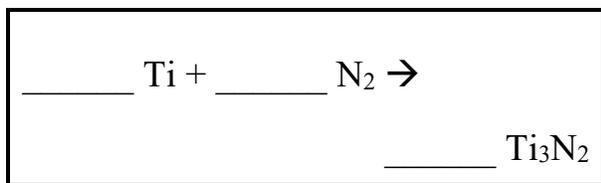
College Prep Chemistry of the Earth

Assignment 4Q – Balancing Equations (*Part 3*)

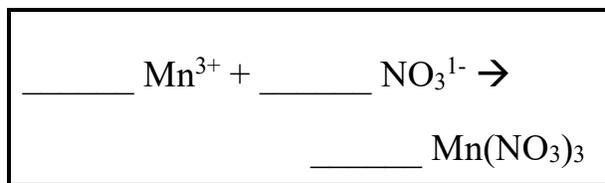
*Balance the following chemical reactions, showing complete balancing chart.*

Atom Ratio	1:1	2:2	1:2	1:3	1:4	1:6	2:4	2:3	4:3	2:6	3:6
Coefficients	1-1	1-1	2-1	3-1	4-1	6-1	2-1	3-2	3-4	3-1	2-1

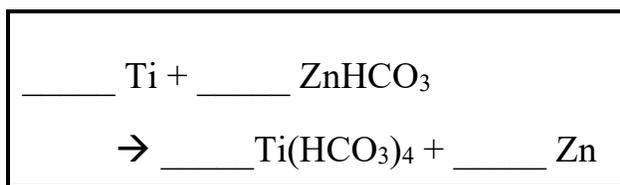
Atom Ratio	3:3	4:4	2:1	3:1	4:1	6:1	4:2	3:2	3:4	6:2	6:3
Coefficients	1-1	1-1	1-2	1-3	1-4	1-6	1-2	2-3	4-3	1-3	1-2



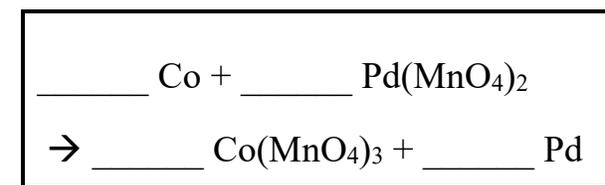
Reactants		Products	
Ti		Ti	
N		N	



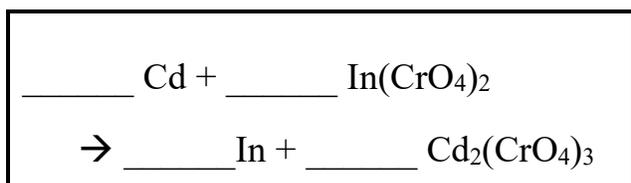
Reactants		Products	
Mn		Mn	
NO <sub>3</sub>		NO <sub>3</sub>	



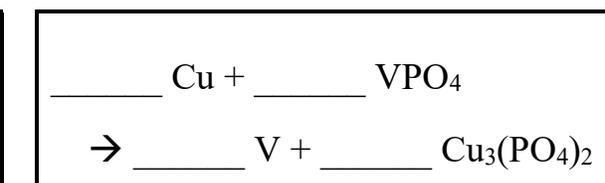
Reactants		Products	
Ti		Ti	
Zn		Zn	
HCO <sub>3</sub>		HCO <sub>3</sub>	



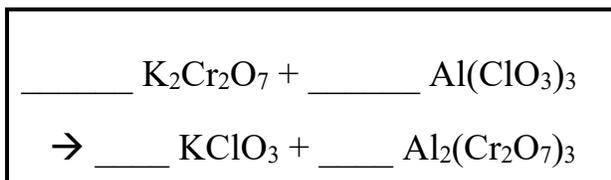
Reactants		Products	
Co		Co	
Pd		Pd	
MnO <sub>4</sub>		MnO <sub>4</sub>	



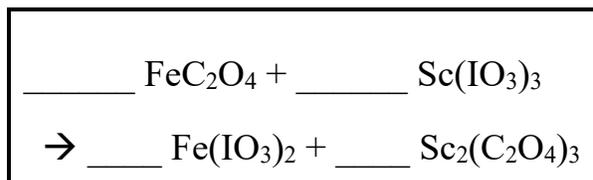
Reactants		Products	
Cd		Cd	
In		In	
CrO <sub>4</sub>		CrO <sub>4</sub>	



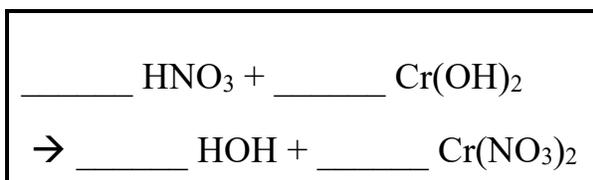
Reactants		Products	
Cu		Cu	
V		V	
PO <sub>4</sub>		PO <sub>4</sub>	



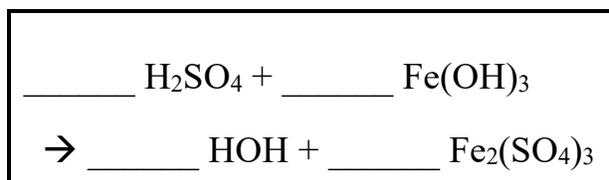
Reactants		Products	
K		K	
Cr <sub>2</sub> O <sub>7</sub>		Cr <sub>2</sub> O <sub>7</sub>	
Al		Al	
ClO <sub>3</sub>		ClO <sub>3</sub>	



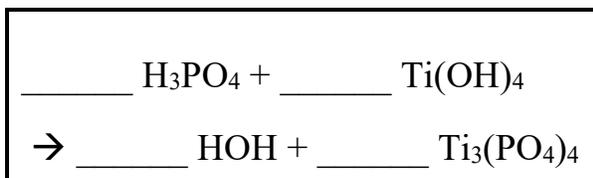
Reactants		Products	
Fe		Fe	
C <sub>2</sub> O <sub>4</sub>		C <sub>2</sub> O <sub>4</sub>	
Sc		Sc	
IO <sub>3</sub>		IO <sub>3</sub>	



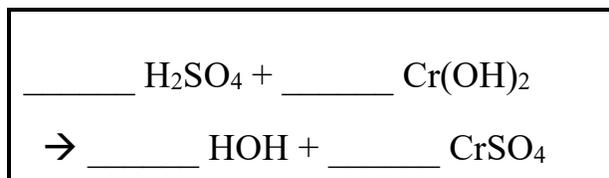
Reactants		Products	
H		H	
NO <sub>3</sub>		NO <sub>3</sub>	
Cr		Cr	
OH		OH	



Reactants		Products	
H		H	
SO <sub>4</sub>		SO <sub>4</sub>	
Fe		Fe	
OH		OH	



Reactants		Products	
H		H	
PO <sub>4</sub>		PO <sub>4</sub>	
Ti		Ti	
OH		OH	



Reactants		Products	
H		H	
SO <sub>4</sub>		SO <sub>4</sub>	
Cr		Cr	
OH		OH	