

Balancing Practice Problems - ANSWERS

Count the total number of each kind of “reactant atom” and total number of each type of “product atom” to balance the following equations. Record the numbers in the spaces provided.



Rocket fuel is burned in a shuttle main engine.

Reactants		Products	
Element	#	Element	#
H	4	H	4
O	2	O	2

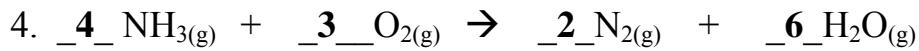


Natural gas is burned in a gas furnace in many homes.

Reactants		Products	
Element	#	Element	#
C	1	C	1
H	4	H	4
O	4	O	4

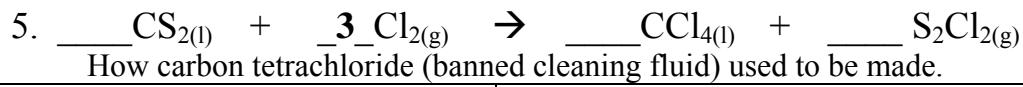


Reactants		Products	
Element	#	Element	#
Fe	4	Fe	4
Cl	12	Cl	12
O	6	O	6

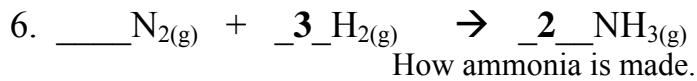


Ammonia will burn slowly in pure oxygen.

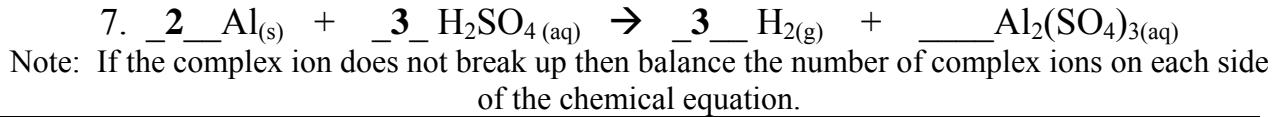
Reactants		Products	
Element	#	Element	#
N	4	N	4
H	12	H	12
O	6	O	6



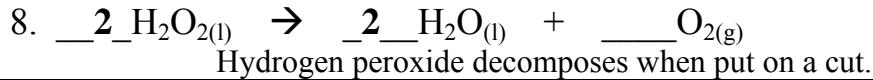
Reactants		Products	
Element	#	Element	#
C	1	C	1
S	2	S	2
Cl	6	Cl	6



Reactants		Products	
Element	#	Element	#
N	2	N	2
H	6	H	6

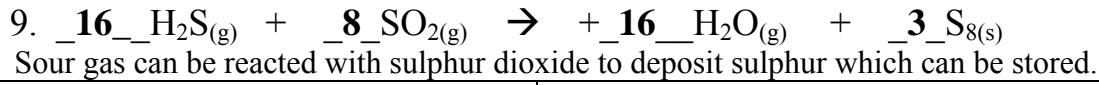


Reactants		Products	
Element	#	Element	#
Al	2	Al	2
H	6	H	6
SO ₄	3	SO ₄	3



Reactants		Products	
Element	#	Element	#
H	4	H	4
O	4	O	4

EXTRA TOUGH!!! See if you can get it!!



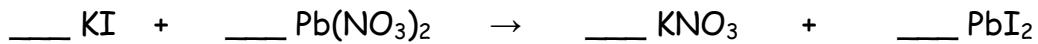
Reactants		Products	
Element	#	Element	#
H	16	H	16
S	24	S	24
O	16	O	16

Balancing Practice Activity

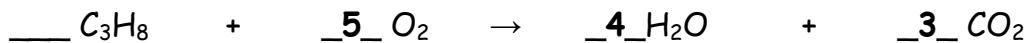
Part A - Balance the following equations and then write the word equation for each in the space provided.



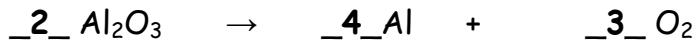
Aluminum plus bromine yields aluminum bromide



Potassium iodide plus lead(II)nitrate yields potassium nitrate plus lead(II)iodide



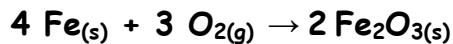
Tricarbon octahydride plus oxygen gas yields dihydrogen monoxide plus carbon dioxide



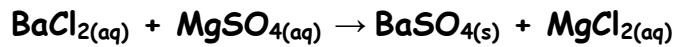
Aluminum oxide yields aluminum plus oxygen gas

Part B - Write the chemical equations for the following word equations and then balance them. Make sure to include states if they are known

Solid iron plus oxygen gas makes solid iron (III) oxide.



Aqueous barium chloride and aqueous magnesium sulphate yields solid barium sulphate and aqueous magnesium chloride.



When heated, solid potassium chlorate produces potassium chloride gas and oxygen gas.



Aqueous lithium sulphate reacts with aqueous beryllium carbonate to produce aqueous lithium carbonate and solid beryllium sulphate.

