	HW4:4 Balancing C Mr. Murr		
1.	Why do we balance chemical reactions (also known as chemical equations)?		Write the following in Reaction Notation: 3Li ₂ O =
2.	Find the molecular mass of: $BeCl_2 =$		$2AIF_3 = \underline{\hspace{1cm}}$ $5O_2 = \underline{\hspace{1cm}}$
		5.	5. If 4g of Hydrogen is combined with 32 g of Oxygen, how much water is produced in the reaction?
3.	Write the following in reaction notation. $2Li_2O = $ $3AlF_3 = $ $4O_2 = $	6.	$H_2 + O_2 \rightarrow H_2O$ True or false: the easiest way to balance this reaction is to remove the 2 next to the first hydrogen.
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7. W	What coefficient must these molecules have?	12. H	Balance the following reactions:
	$CO_2 = C_3O_6$		$__Na + __S \rightarrow __Na_2S$
9. W	ame compound A above: Trite the balanced ionic compounds for Aluminum Chloride.	-	$\underline{\hspace{0.5cm}}$ Cl ₂ + $\underline{\hspace{0.5cm}}$ KBr \rightarrow $\underline{\hspace{0.5cm}}$ KCl + $\underline{\hspace{0.5cm}}$ Br ₂
В.	$Li^{+1}N^{3-}$.	<i>F</i>	$Al_2O_3 + \underline{\qquad} MgCl_2 \rightarrow \underline{\qquad} AlCl_3 + \underline{\qquad} MgO$

10. Give four things that would prove a chemical change

occurred?

11. What is exothermic means?