NAME:	
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EXPERIMENT # 13

$\frac{EMPRICAL\ FORMULA\ OF\ MAGNESIUM\ OXIDE}{REPORT\ FORM}$

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Pur	pose:
I UI	pusc.

Data & Observation:

(All data should be recorded with the proper units and number of significant digits)

Mass of empty crucible + lid:	
Mass of crucible + lid + Mg ribbon: (before heating)	
Mass of crucible + lid + Mg product: (after heating; 1 st massing)	
Mass of crucible + lid + Mg product: (after heating; 2 nd massing)	
Mass of crucible + lid + Mg product: (after heating; 3 rd massing)	

EXPERIMENT # 13

<u>Calculations:</u>
Calculate the following quantities from data collected. Show all calculations clearly with proper units and significant figures.

1.	Mass of magnesium ribbon used:	
2.	Mass of magnesium product:	
3.	Mass of oxygen used:	
4.	Moles of magnesium used:	
5.	Moles of oxygen used:	
6.	Determine the empirical formula of the mag	nesium product:
	Empirical Formula:	

EXPERIMENT # 13

Questions:

1.	The analysis of a salt showed that it contained 56.58% potassium, 8.68% carbon, and 34.73% oxygen. Calculate the empirical formula for this salt.
2.	A sulfide of iron was formed by combining 2.233 g of iron with 1.926 g of sulfur. What is the empirical formula for this compound?
3.	The hydrocarbon propylene has a molar mass of 42.00 g and contains 14.3 % hydrogen and 85.7 % carbon. What is its molecular formula?