Percent Composition Activity		Name	
	•	Date	Sample #
Background:	You have discovered two new elements , <i>Boltium</i> and <i>Nutter</i> , which have the chemical symbols Bo and Nt. Nutter has an oxidation number of -1. Boltium has several oxidation numbers, +1, +2, +3, and +4, similar to iron which has oxidation numbers of +2 and +3		
Purpose:	To find the percentage composition of son	ne compounds made of the e	elements Bo and Nt.
Materials:	Balance, container of boltium and nutter a	atoms e	
Part I: Asser	nble as many molecules of BoNt as possible.	Put any excess aside.	
Ho	w many molecules of BoNt did you make?		
a)	Mass of all BoNt molecules.		
b)	Mass of all Bo atoms used.		
c) <u></u>	Mass of all Nt atoms used.		
d)	Percent, by mass, of Bo in BoNt		
e)	Percent, by mass, of Nt in BoNt	•	
f)	Name the comp	ound you just made.	
g)	How many molecules of these at	oms are in one mole of BoN	t?
h)	How many atoms of Bo are in on	e mole of BoNt?	
i)	How many atoms of Nt are in on	e mole of BoNt?	
Part II: Asse	emble as many molecules of BoNt2 as possib	le. Put aside any excess.	
Ho	w many molecules of BoNt2 did you make?		
a)	Mass of all BoNt ₂ molecules.	•	
b)	Mass of all Bo atoms used.		
c)	Mass of all Nt atoms used.		
d)	Percent, by mass, of Bo in BoNt	2-	
e)	Percent, by mass, of Nt in BoNt		
f)	Name this compound, usin	ng the correct roman numer	al in the name.
g)	How many molecules of these at	oms are in one mole of BoN	t ₂ ?

_How many atoms of Bo are in one mole of BoNt2?

_How many atoms of Nt are in one mole of BoNt₂?

	How many molecules of BoNt3 did you make?
a)	Mass of all BoNt ₃ molecules.
b)	Mass of all Bo atoms used.
c)	Mass of all Nt atoms used.
d)	Percent, by mass, of Bo in BoNt ₃ .
e)	Percent, by mass, of Nt in BoNt ₃ .
f)	Name this compound, using the correct roman numeral in the name.
.g)	How many molecules of these atoms are in one mole of BoNt ₃ ?
h)	How many atoms of Bo are in one mole of BoNt ₃ ?
i)	How many atoms of Nt are in one mole of BoNt ₃ ?
a)	How many molecules of BoNt ₄ did you make?
a)	Mass of all BoNt ₄ molecules.
b)	Mass of all Bo atoms used.
c) _	Mass of all Nt atoms used.
d) _	Percent, by mass, of Bo in BoNt4.
e) _	Percent, by mass, of Nt in BoNt ₄ .
f) _	Name this compound, using the correct roman numeral in the name.
g) _	How many molecules of these atoms are in one mole of BoNt ₄ ?
n) _	How many atoms of Bo are in one mole of BoNt ₄ ?
) _	How many atoms of Nt are in one mole of BoNt ₄ ?
Diram	tions:
Kuez	
	/nich compound has the highest percentage by mass of Roltium?
. И	/hich compound has the highest percentage by mass of Boltium?
. W	/hich compound has the highest percentage by mass of Boltium?/hich compound has the highest percentage by mass of Nutter?/hich compound has the most atoms per molecule?