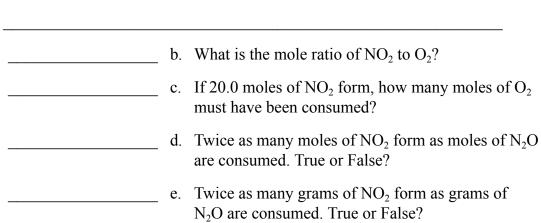
		Date
them Activity 10-0		
Stoichioi	netry Section	9:1
	Answer the following questio	
1 The coe	fficients in a chemical equation sees in grams of all reactants	on represent the
(c) nur	tive number of moles of reach her of atoms of each elementary and a subset of valence electrons inv	nt in each compound in a reaction.
2 Which of stoichio	of the following would not be metry?	e studied within the topic of
(a) the (b) the	mole ratio of Al to Cl in the	compound aluminum chloride nen a known mass of sucrose
qua	ntity of oxygen	o break the ionic bonds in CaF ₂
3 A balanda (a) mo (b) ene (c) elec	ced chemical equation allows le ratio of any two substance rgy released in the reaction. etron configuration of all elec- tion mechanism involved in	s you to determine the s in the reaction. ments in the reaction.
4 The relator form (a) reaction (b) bore (c) mo		rogen to moles of oxygen that read
5. Given the	reaction represented by the f $N_2O(g) + O_2(g) - O_2(g) = 0$	Following unbalanced equation: $\rightarrow NO_2(g)$
a. Write the ba	anced equation below.	



Name	Class	Date
		left. Show all your work in the
6. Given the following	ng equation: $N_2(g) + 3H_2(g)$	$g) \rightarrow 2NH_3(g)$
	e decimal place the molar nass in grams per mole.	mass of each substance and
b. There are six d	lifferent mole ratios in this	s system. Write out each one.
7. Given the following	equation: $4NH_3(g) + 6N$	$NO(g) \rightarrow 5N_2(g) + 6H_2O(g)$
	a. What is the mole	e ratio of NO to H ₂ O?
	b. What is the mole	e ratio of NO to NH ₃ ?
	s of NH ₃ react according t will be consumed?	o the above equation, how many
represented by the	following equation:	bustion reaction of propyne can be
	$C_3H_4(g) + 4O_2(g) \rightarrow 3CO_2$	
a. write an the pos	ssible mole ratios in this s	ystem.
mole quantities		above reaction. The other three, and $0.5x$. Match these quantities ation above.