Chemistry Unit 8 Worksheet 4
Samples of Every Kind of Problem

On a separate sheet of paper, write a complete solution to each of the problems below. Follow the procedure outlined in class. Be sure to circle your final answer.

1. Calculate the number of moles of potassium chlorate, $KClO_3$ (s), that must decompose to produce potassium chloride, KCl (s), and 1.8 moles of oxygen gas.

		$2\ KClO_3$	$\rightarrow$	$2\ KCl$	$+$	$3\ O_2$
Equation:						
Before:		1.2		0		0
Change:		-1.2		+1.2		+1.8
After:		0		1.2		1.8

> 1.2 moles $KClO_3$ needed

2. In a single displacement reaction, magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. How many moles of hydrochloric acid are needed to completely react with 2.43 g of magnesium?

	Mg	$+$	$2\ HCl$	$\rightarrow$	$MgCl_2$	$+$	H_2
Equation:							
Before:	0.100		?		0		0
Change:	-0.100		-0.200 +		0.100 +		0.100
After:	0		?		0.100		0.100

> 0.200 moles HCl needed

3. Ethane, C_2H_6 reacts with oxygen gas to produce carbon dioxide gas and water vapor. What mass of oxygen gas is required to react with 2.20 moles of ethane?

	$2\ C_2H_6$	$+$	$7\ O_2$	$\rightarrow$	$4\ CO_2$	$+$	$6\ H_2O$
Equation:							
Before:	2.20		xs		0		0
Change:	-2.20		- 7.70		+ 4.40		+ 6.60
After:	0		xs		4.40		6.60

> O_2 needed: 7.70 mole x $\dfrac{32.0\ g}{1\ mole}$ = 246 g O_2 required

4. Determine the mass of sodium nitrate produced when 0.73 g of nickel (II) nitrate reacts with sodium hydroxide according to the following equation:
$$Ni(NO_3)_2 + 2\ NaOH \rightarrow Ni(OH)_2 + 2\ NaNO_3$$

> 0.73 g x $\dfrac{1\ mole}{183\ g}$ = .0040 mole

	$Ni(NO_3)_2$	$+$	$2\ NaOH$	$\rightarrow$	$Ni(OH)_2$	$+$	$2\ NaNO_3$
Equation:							
Before:	0.0040		XS		0		0
Change:	- 0.0040		- 0.0080		+0.0040		+0.0080
After:	0		XS		0.0040		0.0080

> $NaNO_3$ produced: 0.0080 mole x $\dfrac{85.0\ g}{1\ mole}$ = 0.68 g

[Modeling Chemistry Unit 7 Answer](#)

J Rink

Modeling Chemistry Unit 7 Answer:

The Top Books of the Year Modeling Chemistry Unit 7 Answer The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Modeling Chemistry Unit 7 Answer : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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