AP Chem Quiz: Ch 3 & 4 Version E (40 pts)		Name: Date:	Period:
Show your work for all questions; a	answer all parts of all questi	ons. No work = no c	redit.
 (20 pts) Ascorbic acid, or vita body and must be present in the a. (4 pts) Calculate the personal content of the			
equation below. Balan number ratio.	ascorbic acid produces carbonate the equation and reduce control (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) and (x,y) and (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) are control (x,y) and (x,y) and (x,y) are control (x,y) and $(x,$	oefficients to the smal	_
In one particular reaction, 20. c. (4 pts) Determine the		3.00 g of oxygen gas.	
d. (4 pts) What mass of t	he excess reactant remains wh	nen the reaction is con	Ans = nplete?
e. (4 pts) If the reaction i	s 90.0% percent efficient, wh	at mass of water woul	Ans = d be produced?

Ans = _____

2.	 (8 pts) a. (4 pts) Describe how 400.0 mL of 0.100 M magnesium hydroxide solution can be from 800.0 mL of a 2.50 M solution.
	b. (4 pts) Will the solution conduct electricity? Why or why not?
3.	(12 pts) Give the formulas to show the reactants and the products for the following chemical reactions. Each of the reactions occurs in aqueous solution unless otherwise indicated. Represent substances in solution as ions if the substance is extensively ionized. Omit formulas for any ions or molecules that are unchanged by the reaction. In all cases a reaction occurs. You need not balance or include states of matter. a. A solution of potassium sulfide is mixed with a solution of nickel (II) nitrate.
	b. A solution of iron (III) sulfate is mixed with a solution of calcium chloride.
	c. A solution of ammonium chromate is mixed with a solution of mercury (II) iodide.

AP Chem Quiz: Ch 3 & 4 Version F (40)		Name: Date:	Period:
Show your wor	rk for all questions; answer all parts of all questi	ons. No work = no c	redit.
	Acetylsalicylic acid, or aspirin (C ₉ H ₈ O ₄), is a comr (4 pts) Calculate the percent composition by mass o		
t	(4 pts) Combustion of acetylsalicylic acid produces the equation below. Balance the equation and reduce number ratio. $C_9H_8O_4(s) + C_2(g) \rightarrow CO_2(g)$	ce coefficients to the s	
	particular reaction, 20.00 g acetylsalicylic acid burns (4 pts) Determine the limiting reactant.	s with 3.00 g of oxyge	en gas.
d. ((4 pts) What mass of the excess reactant remains wh	nen the reaction is con	Ans = nplete?
	(4 pts) If the reaction is 60.0% percent efficient, wh produced?	at mass of carbon diox	Ans = xide would be

Ans = _____

2.	 (8 pts) a. (4 pts) Describe how 300.0 mL of 0.200 M hydrogen phosphate solution can be from 900.0 mL of a 2.00 M solution.
	b. (4 pts) Will the solution conduct electricity? Why or why not?
3.	(12 pts) Give the formulas to show the reactants and the products for the following chemical reactions. Each of the reactions occurs in aqueous solution unless otherwise indicated. Represent substances in solution as ions if the substance is extensively ionized. Omit formulas for any ions or molecules that are unchanged by the reaction. In all cases a reaction occurs. You need not balance or include states of matter. a. A solution of lithium hydroxide is mixed with a solution of manganese (II) acetate.
	b. A solution of lead (II) perchlorate is mixed with a solution of ammonium oxalate.
	c. A solution of potassium carbonate is mixed with a solution of silver nitrate.