## (leave in classroom) Class Copy

Olymistry Practice Final 2017 Name:	12. Calculate the number of grams of water produced when 4.30 moles of propane, C <sub>3</sub> H <sub>8</sub> , reacts with excess oxygen
Honors Chemistry Practice Final 2017 Name:	according to the reaction below:
	$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$
the because it generates an extremely hot flame when combusted with oxygen.	a. 310. grams b. 77.5 grams c. 19.4 grams d. 0.239 grams
<ol> <li>Acetylene gas, C<sub>2</sub>H<sub>2</sub>, is used in welding because it generates an extremely hot flame when combusted with oxygen.  How many moles of oxygen are required to react completely with 4.6 grams of acetylene? Use the balanced equation</li> </ol>	13. In an experiment, 5.00 grams of carbon monoxide reacts with 5.00 grams of iron (III) oxide (molar mass = 159.7g)
below:	13. In an experiment, 5.00 grams of carbon motorate clears with a produced?
below: $ 2 C_2 H_2 + 5 O_2 \rightarrow 4 CO_2 + 2 H_2 O $ d. 0.71 mol b. 0.071 mol c. $3.0 \times 10^2$ mol d. 0.71 mol	(molar mass = 28.01). What mass of iron metal will be produced? $Fe_2O_3 + 3CO_2 + 2Fe$
	1.75 aroms
2. If 2.6 moles of PbCl <sub>2</sub> react with excess K <sub>2</sub> SO <sub>4</sub> , how many moles of KCl will be produced? Use the <u>unbalanced</u>	a. 6.64 grams b. 5.38 grams c. 1.75 grams d. 3.50 grams
2. If 2.6 moles of PbCl, react with excess K <sub>2</sub> SO <sub>4</sub> , how many moles of RCI will be produced? 555 the <u>Management</u>	
equation below:	14. True or False, Consider the reaction:
$PbCl_1 + \underline{\hspace{1cm}} K_2SO_4 \rightarrow \underline{\hspace{1cm}} PbSO_4 + \underline{\hspace{1cm}} KCl_1 + \underline{\hspace{1cm}} IO_3 mol_2$	$KOH + SO_2 \rightarrow KHSO_3$
equation below:	Since the coefficients of the balanced chemical equation are all equal to 1, we know that exactly 1.0 gram of KO will produce 1.0 gram of KHSO <sub>3</sub> .
could be reduced by reacting 7.3 moles of hydrogen sulfide with excess	a. True b. False
3. How many moles of sulfur dioxide gas will be produced by reacting 7.3 moles of hydrogen sulfide with excess	d. The
	15. Consider the balanced equation: $4A1 + 3O_2 \rightarrow 2Al_2O_3$
oxygen according to the reaction below. $H_2S + O_2 \rightarrow SO_2 + H_2$ a 230 mol b. 29 mol c. 7.3 mol d. 3.7 mol	What mole ratio would you use to calculate how many moles of oxygen gas were needed to react completely with
4. Suppose you have 35.0 grams of copper reacting with a silver nitrate solution. How many grams of silver can you  4. Suppose you have 35.0 grams of copper reacting with a silver nitrate solution. How many grams of silver can you	2.0 moles of Aluminum metal?
Suppose you have 35.0 grams of copper reacting with a silver intrate solution. For many grams	d. 41101 A1_
melco?	$3 \text{ mol } O_2$ $4 \text{ mol } Al$ $2 \text{ mol } Al_2O_3$ $2 \text{ mol } O_2$
a. 59.4 grams b. 20.6 grams c. 3780 grams d. 119 grams	
5. A sample of air has a volume of 550.0mL at 106°C. At what temperature (in degrees Celsius) will its volume be	16. The height of a barometer, which measures atmospheric pressure, reads 752 torr. What is this pressure in
	atmospheres?  a. 1.01 atm. b. 0.752 atm. c. 0.989 atm. d. 479 atm. e. 0.660 atm.
700.0mL at constant pressure?  a. 134°C  b. 407°C  c. 209°C  d. 482°C  e. 755°C	a. 1.01 aun b. 0.752 aun G. 6.555 aun
6. Which of the following conditions represents standard temperature and pressure?	17. Use the kinetic molecular theory of gases to predict what would happen to a closed sample of a gas whose temperatures of the control of t
6. Which of the following conditions represents standard temperature	increased by a factor of 2 while its volume decreased by a factor of 2.
a. 25°C, 760 atm	a. Its pressure would decrease
b. 273K, 1.00atm	b. Its pressure would increase
с. 25°С, 760 toп	c. Its pressure would hold constant
d. 0°C, 101.3 torr	d. The number of moles of the gas would decrease
the between pressure and temperature?	e. The average kinetic energy of the molecules of the gas would decrease
7. Which of the following graphs below depicts the relationship between pressure and temperature?	
val ya ya	18. A weather balloon at Earth's surface has a volume of 4.00 L at 31°C and 755 mm Hg. If the balloon is released and
1 / 1 / 1	the volume reaches 4.08 L at 728 mm Hg, what is the temperature in Kelvin?
	a. 30.5K b. 309K c. 299K d. 404K
	d. 30.012
0 × 0 8 × 0 C × 0 D	19. You are holding two balloons of equal volume at 1.00atm and 273K. One balloon contains 22.4g of argon. The other
A B	balloon contains neon. What is the mass of neon in the balloon?
8. Find the mass in grams of 4.2 L of NH <sub>3</sub> at standard temperature and pressure d. 72.0g e. 3.20g	a. 22.4g b. 0.561g c. 0.0278g d. 11.3g e. 6.02x 10 <sup>23</sup> g
8. Find the mass in grams of 4.2 L of 1913 at standard and the mass in grams of 4.2 L of 1913 at standard and 2.63 g d. 72.0 g e. 3.20 g a. 2.63 g b. 22.4 g c. 0.188 g d. 72.0 g e. 3.20 g	d. 22.4g
a. 2.05g	20. What volume of 0.550M solution of magnesium hydroxide can be made with 20.6g of magnesium hydroxide?
9. At what temperature will 41.6 grams N <sub>2</sub> exerts a pressure of 815 torr in a 20.0 L cylinder?  e. 22.4K	
9. At what temperature W. b. 176K c. 87.8K d. 6.27K e. 22.4K	a. 0.353L b. 1.56L c. 0.642L d. 0.907L e. 0.194L
d. 1324K	21. How many milliliters of 13.0M sulfuric acid are needed to prepare 600.0mL of 3.50M sulfuric acid solution?
10. You have 25.00 mL of a 0.1000 M Kool-aid solution. How much water must be added to make a 0.02458 M solution?  10. You have 25.00 mL of a 0.1000 M Kool-aid solution. How much water must be added to make a 0.02458 M solution?  11. You have 25.00 mL of a 0.1000 M Kool-aid solution. How much water must be added to make a 0.02458 M solution?  12. Compared to the c	
10. You have 25.00 mL of a 0.1000 M Root and statement of a 0.25.0mL e. 6.15mL	a. 16200mL b. 600.0mL c. 13.0mL d. 0.758mL e. 162mL
a 126mL b. Totalic	the situation are said with a standard solution of base. What solar is
11. When solid sodium is dropped into a flask containing chlorine gas, an explosion occurs and a fine powder of sodium	22. Phenolphthalein is an indicator used when titrating an acid with a standard solution of base. What color is
11. When solid sodium is dropped into a flask containing chlorine gas, an explosion occurs and a line power of the chloride (salt) is produced. If you wanted to make 5.0 grams of salt, how many moles of chlorine gas would you need chloride (salt) is produced. If you wanted to make 5.0 grams of salt, how many moles of chlorine gas would you need chloride.	phenolphthalein in acidic solution?
chloride (salt) is produced. If you wanted to make 5.5 glains 5.5 glains	a. Clear b. Pink
to add to excess sodium?	
a. 0.043mol b. 0.086mol c. 3.0 mol d, 0.0 mol	