Accelerated Chemistry Practice Quiz

Name:	
Period:	

- 1. Calculate the volume of carbon dioxide produced when 44.0 g of C_4H_{10} is combusted. The density of CO_2 is 1.47 g/L.
- 2. Calculate the mass of silver produced when 15.0 moles of Copper is reacted with excess Silver nitrate solution. Copper (II) product formed.
- 3. How many molecules of Chlorine gas must react with 10.0 grams of Aluminum to produce Aluminum Chloride
- 4. If 30.0 grams of Benzene (C_6H_6) react with 65.0 grams of Bromine. Calculate the percent yield and experimental error of C_6H_5Br . Identify the limiting reactant and the excess reactant. The actual yield of the product (C_6H_5Br) is 56.7 grams. The equation for this reaction is: $C_6H_6 + Br_2 \rightarrow C_6H_5Br + HBr$
- 5. Calculate the theoretical yield of zinc chloride can be produced if 10.0grams of Zinc react with 10.0 grams of HCl? Which Reactant is limiting? Which Reactant is in Excess? If 17.5 grams were produced during the lab calculate the percent yield and percent error. Balance the equation first. Answers all five questions.

$$Zn + HCl \rightarrow ZnCl_2 + H_2$$

For fun if you want calculate the amount of excess reactant left over after the reaction is complete

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1. Calculate the volume of carbon dioxide produced when 44.0 g of C ₄ H ₁₀ is combusted. The
density of CO_2 is 1.47 g/L. 44, O_2 , $\frac{1}{589}$, $\frac{9}{2}$, $\frac{1}{1.4}$. 204, O_3 , $\frac{1}{10}$, $\frac{1}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$,
[= 90.8L]
2. Calculate the mass of silver produced when 15 0 moles of Copper is reacted with excess Silver nitrate solution (Copper II) is formed
/_ 9/
$\frac{C_{15000}}{15000} = \frac{2A_{9}NO_{3}}{15000} = \frac{2M_{1500}}{15000} = \frac{2M_{1500}}{1500$
15,0mol. 2 mol. 107.9 = [32409]
Aluminum Chloride 2A 1 1261 - 741C).
10.0g. 100, 3 moi. 62000 cules (3.34×10 cules)
4. If 30.0 grams of Benzene (C ₆ H ₆) react with 65.0 grams of Bromine. Calculate the percent yield and
experimental error of C ₆ H ₅ Br. Identify the limiting reactant and the excess reactant. The actual yield of
the product (C_6H_5Br) is 56.7 grams. The equation for this reaction is: $C_6H_6 + Br$ $\rightarrow C_6H_5Br$ $\rightarrow H_5Br$ $\rightarrow H_5Br$
30.0g. 789 - 1 mos 1 mos 60,3g From = 60,3c -56,7c = 13.60
65.0g 1 mol 1969 - 63.8 % Viold - act 56.75
the product (C_6H_5Br) is 56.7 grams. The equation for this reaction is: $C_6H_6 + Br_1 \rightarrow C_6H_5Br + HBr$ $30.0q. \frac{1}{769}g = \frac{1}{1}\frac{1}\frac$
5 Calculate the theoretical yield of zing chlorida can be produced if 10 0
with 10.0 grams of HCl? Which Reactant is limiting? Which Reactant is in Excess? If 17.5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
grams were produced during the lab – calculate the percent yield and percent error. Balance the equation first. Answers all five questions.
The petical = 18,70
Zh + 2HC) > ZnCh + H2 Limiting = HC)
1-4666 = 20
10.0g. 1 mol 1 mol = 20,99 90 Vield = act +100
10,0g - 100 1360 Cc. 16 7
36.59 Znot 1 not -10.19 = 17.59 x100 93,6%
10 error = 6,4%

For fun if you want calculate the amount of excess reactant left over after the reaction is complete $\frac{10.0g}{36.59} \cdot \frac{1 m^{-1}}{2 m^{-1}} \cdot \frac{65.4g}{1 m^{-1}} = 6.96g$