

## Stoichiometry Worksheet # 1

1) Glucose is used as a source of energy by the human body. The overall reaction in the body is



Calculate the number of moles of oxygen needed to oxidize 12.5 g of  $\text{C}_6\text{H}_{12}\text{O}_6$ .

2) Ammonia is synthesized from hydrogen and nitrogen according to the following equation.



If an excess of nitrogen is reacted with 3.41 moles of hydrogen gas, how many grams of ammonia ( $\text{NH}_3$ ) can be produced?

3) Assume that in the decomposition of potassium chlorate,  $\text{KClO}_3$ ,



80.5 moles of  $\text{O}_2$  form. How many grams of potassium chlorite, the other product would be formed?

4) In a single displacement reaction,



9.23 moles of aluminum react with excess hydrochloric acid. How many moles of hydrogen will be produced?

5) The compound "Cisplatin"  $\text{PtCl}_2(\text{NH}_3)_2$ , has been found to be effective in treating some types of cancer. It can be synthesized using the following reaction



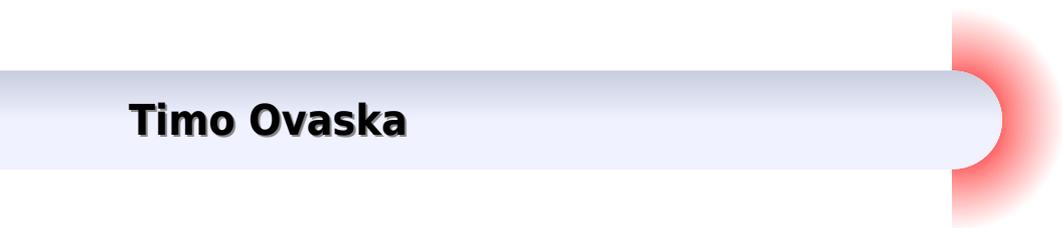
A. How many moles of "cisplatin" can be produced from 2.50 g  $\text{K}_2\text{PtCl}_4$ ?

B. How many moles of  $\text{NH}_3$  would be needed if 3.8 moles of  $\text{K}_2\text{PtCl}_4$  were present?

# Chapter 12 Supplemental Problems Stoichiometry

## Answer Key

**Timo Ovaska**



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web feb 4 2015 source does a 2003 320d e46 bmw have a timing chain or a timing chain to start with does your car motor run bad or will not start up but some of their cheaper models had timing belts recommend you have it checked by a pro

**e46 320d m47 timing bmw forums bimmerforums** - Aug 04 2022

web jun 5 2015 hi ya all as anybody done the timing on above unit e46 320d m47 2004 plate we done some work on pump after it failed to do its job we have not touched the timing we used the special pump tool but the reason we think or we r going to check the timing is the problem came from someone miss using acting the prat with the car

**how to set the timing on a bmw 320d e46 fixya** - Jan 29 2022

web how do i set the timing on a bmw 320d e46 2002 model if you are assembling the engine you must have a shop manual to provide torque values etc i expect it has the timing procedure

bmw e46 install timing components reset timing diy youtube - Aug 16 2023

web dec 4 2016 m54 timing tool kit amzn to 2odefkii began my rebuild when i did a compression test and noticed i had poor compression in cylinders 2 6 about 142 p

*2003 e46 320d how to do correct timing bmw forums* - Jul 15 2023

web apr 13 2015 yes ashow i have it at the moment is on tdc piston 1 intake valve wil open the moment the piston goes down i do have at the moment piston number 3 on exhaust valve open i do think i have my timing then in order i just had to make sure

**bmw e46 320d yarar mı donanımlar forum** - Jul 03 2022

web arkadaşım sonuçta bmw bmw dir faslını geçip direk sana amcamın bir depo yakıtla 1100 km yol yaptığını söyleyeyim alıntılarını göster e46 320d ben kullanıyorum mükemmel bir araç fakat her araçta olduğu gibi bu araçta kronik sorunları var her şeyden önemlisi motorlar oldukça sağlam uzun

*320d timing chain replacement bimmerpost* - Oct 06 2022

web dec 15 2021 hi all i m looking for recommended garages to replace the timing chain and associated components on my n47 320d may 2013 build currently on 104k miles started misfiring took it to a trusted mechanic who agreed its sounding rough but nothing showed on their bmw obd reader suggesting that i caught the issue early

set timing without special tool risky or doable update e46 - May 13 2023

web dec 8 2019 there s nothing wrong with that everyone starts from zero i assumed he meant install the vanos because nobody who is familiar with the timing would even bring the vanos up setting the timing requires a bigger kit than that anyway the camshafts and crankshaft need to be locked before you even get to the sprockets and timing chain