

Accredited

AS Level Chemistry A H032/01 Breadth in chemistry Sample Question Paper

Date – Morning/Afternoon

Version 2.1

Time allowed: 1 hour 30 minutes

You must have:

. the Data Sheet for Chemistry. A

You may use:

· a scientific or graphical calculator



First name		
Last name	G	
Centre number	Candidate	

INSTRUCTIONS

- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer all the questions.
- Where appropriate, your answers should be supported with working. Marks may
 be given for a correct method even if the answer is incorrect.
- Write your answer to each question in the space provided.
- Additional paper may be used if required but you must clearly show your candidate number, centre number and question number(s).
- Do not write in the bar codes.

INFORMATION

- The total mark for this paper is 70.
- The marks for each question are shown in brackets [].
- This document consists of 28 pages.



Ocr Chemistry Past Papers

Mike Smith

Ocr Chemistry Past Papers:

Thank you entirely much for downloading **Ocr Chemistry Past Papers**. Maybe you have knowledge that, people have look numerous time for their favorite books afterward this Ocr Chemistry Past Papers, but end taking place in harmful downloads.

Rather than enjoying a good ebook behind a cup of coffee in the afternoon, on the other hand they juggled taking into account some harmful virus inside their computer. **Ocr Chemistry Past Papers** is simple in our digital library an online entry to it is set as public as a result you can download it instantly. Our digital library saves in combination countries, allowing you to acquire the most less latency epoch to download any of our books with this one. Merely said, the Ocr Chemistry Past Papers is universally compatible past any devices to read.

https://crm.avenza.com/results/uploaded-files/HomePages/Shadow Watcher Darkness English Edition.pdf

Table of Contents Ocr Chemistry Past Papers

- 1. Understanding the eBook Ocr Chemistry Past Papers
 - The Rise of Digital Reading Ocr Chemistry Past Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ocr Chemistry Past Papers
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr Chemistry Past Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ocr Chemistry Past Papers
 - Personalized Recommendations
 - Ocr Chemistry Past Papers User Reviews and Ratings
 - Ocr Chemistry Past Papers and Bestseller Lists

- 5. Accessing Ocr Chemistry Past Papers Free and Paid eBooks
 - o Ocr Chemistry Past Papers Public Domain eBooks
 - Ocr Chemistry Past Papers eBook Subscription Services
 - Ocr Chemistry Past Papers Budget-Friendly Options
- 6. Navigating Ocr Chemistry Past Papers eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Ocr Chemistry Past Papers Compatibility with Devices
 - o Ocr Chemistry Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Chemistry Past Papers
 - Highlighting and Note-Taking Ocr Chemistry Past Papers
 - Interactive Elements Ocr Chemistry Past Papers
- 8. Staying Engaged with Ocr Chemistry Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Ocr Chemistry Past Papers
- 9. Balancing eBooks and Physical Books Ocr Chemistry Past Papers
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Chemistry Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Chemistry Past Papers
 - Setting Reading Goals Ocr Chemistry Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Chemistry Past Papers
 - Fact-Checking eBook Content of Ocr Chemistry Past Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Ocr Chemistry Past Papers Introduction

In the digital age, access to information has become easier than ever before. The ability to download Ocr Chemistry Past Papers has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Ocr Chemistry Past Papers has opened up a world of possibilities. Downloading Ocr Chemistry Past Papers provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Ocr Chemistry Past Papers has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Ocr Chemistry Past Papers. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Ocr Chemistry Past Papers. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Ocr Chemistry Past Papers, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Ocr Chemistry Past

Papers has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Ocr Chemistry Past Papers Books

- 1. Where can I buy Ocr Chemistry Past Papers books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Ocr Chemistry Past Papers book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Ocr Chemistry Past Papers books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
- 7. What are Ocr Chemistry Past Papers audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores.

- Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Ocr Chemistry Past Papers books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Ocr Chemistry Past Papers:

shadow watcher darkness english edition sgbau question papers2013 electronic shadows in the tree english edition sexe et compagnie soumission t

setting internet manual xl android

seven days of creation crafts for kids sharp el 1801v manual portugues seventh grade common core english pacing guide

shark vacuum parts

sharp al 1655cs digital multifunctional copier service repair manual

shaker 500 audio manual

sharepoint 20basic user guide

shark dichotomous key lab answer sheet

shadow btm6 gtm6 user guide

sharp dv-nc100 manual

Ocr Chemistry Past Papers:

examples of rosas in english spanishdictionary com - Feb 17 2022

web la sirenita es una película dirigida por john musker y ron clements con las vozes de jodi benson claire guyot sinopsis ariel es la hija del rey tritón además de una intrépida

la sirenita cuentos rosas brillantes scarlett thomas 2023 - Mar 21 2022

web actualmente viendo la sirenita cuentos rosas brillantes caja 12 rosas tejas helena was successfully added to your shopping cart caja 12 rosas tejas helena fue

la sirenita cuentos rosas brillantes 2023 old syndeohro - Jun 23 2022

web 2 la sirenita cuentos rosas brillantes 2022 01 31 los cuentos de hans christian andersen son mágicos pero cómo logras que los niños se emociones con historias

buy la sirenita the little mermaid cuentos rosas brillantes - Apr~02~2023

web el pequeño koala se cruza con varios amigos subiendo a un árbol de vuelta a casa Él vive arriba del todo haz sonar su nariz para guiarlo con diferentes texturas para tocar y una

la sirenita película 1989 sensacine com - Jan 19 2022

web la sirenita para colorear te traemos dibujos para colorear del cuento de la sirenita listos para que puedas descargar o imprimir ideal para que nuestras princesas y

la sirenita cuentos rosas brillantes pdf database grovemade - Aug 26 2022

web jul 23 2023 este libro recoge diez cuentos de andersen en sus versiones originales traducidos directamente del danés pulgarcita el lino el ruiseñor el soldadito de plomo

la sirenita cuentos rosas brillantes - Oct 28 2022

web cuentos rosa brillantes la sirenita ilustraciones carmen guerra susaeta ref 9788430545728 ver otros productos de la misma colección ver otros productos del

amazon com la sirenita cuentos rosas brillantes sparkling - Aug 06 2023

web amazon com la sirenita cuentos rosas brillantes sparkling roses tales spanish edition 9788430545728 guerra carmen guerra carmen libros

cuentos rosa brillantes la sirenita libreriacodex com - Mar 01 2023

web libro la sirenita cuentos rosas brillantes del autor vv aa al mejor precio nuevo o segunda mano en casa del libro méxico lavanguardia com - Nov 28 2022

web la sirenita cuentos rosas brillantes by online you might not require more time to spend to go to the book opening as with ease as search for them in some cases you likewise

<u>la sirenita cuentos rosas brillantes sparkling roses</u> - Jun 04 2023

web en este libro encontraras el cuento de la sirenita además de divertirte con sus p aa

la sirenita cuentos rosas brillantes librotea - May 03 2023

web amazon in buy la sirenita the little mermaid cuentos rosas brillantes sparkling roses tales book online at best prices in

india on amazon in read la sirenita the *la sirenita disney* - Nov 16 2021

resumen del cuento la sirenita - Apr 21 2022

web espido freire analiza en esta antología quince de sus cuentos clásicos favoritos y nos abre una puerta mágica para que nos adentremos en ellos como nunca antes lo habíamos

cuentos rosa brillantes la sirenita 9788430545728 - Sep 26 2022

web la sirenita cuentos rosas brillantes 3 3 graubel is a powerful man in the republic married with children silena determined to escape the poverty and abuse s he suffered

la sirenita para colorear cuentos de princesas infantiles - Dec 18 2021

web ariel llega a un acuerdo con la deshonesta bruja del mar para volverse humana

la sirenita cuentos rosas brillantes - Jul 25 2022

web la sirenita cuentos rosas brillantes the princess and the pea cuentos ilustrados lolita cuentos contados para niños snow white and the 77 dwarfs la sirenita cuentos

la sirenita cuentos rosas brillantes libro de cartón amazon es - Jul 05 2023

web la sirenita cuentos rosas brillantes guerra carmen guerra carmen amazon es libros

sirenita la cuentos rosas brillantes cuentos rosas brillantes - Oct 08 2023

web sirenita la cuentos rosas brillantes cuentos rosas brillantes sparkling roses tales guerra carmen amazon com tr kitap la sirenita cuentos rosas brillantes vv aa - Sep 07 2023

web el libro infantil la sirenita cuentos rosas brillantes en casa del libro descubre las mejores ofertas y envíos gratis

la sirenita cuentos rosas brillantes casa del - Jan 31 2023

web comprar el libro cuentos rosas brillantes la sirenita de carmen guerra de hoyos susaeta ediciones 9788430545728 con envÍo gratis desde 18 en nuestra librería

cuentos rosas brillantes la sirenita librería agapea - Dec 30 2022

web we would like to show you a description here but the site won t allow us

la sirenita cuentos rosas brillantes gsevocab pearsonelt - May 23 2022

web sep 14 2020 la sirenita ya invisible a los ojos humanos abrazó a los esposos sonrió y en seguida voló hacia el cielo con las demás hijas del viento envueltas en una nube de

masm directives pseudo opcodes chapter eight - Feb 15 2022

web the mnemonic field contains an assembler instruction instructions are divided into three classes 80x86 machine

instructions assembler directives and pseudo opcodes 80x86 instructions of course are assembler mnemonics that correspond to the actual 80x86 instructions introduced in chapter six

assembly language solution pdf slideshare - Mar 19 2022

web may 26 2015 4 assembly language programming amer al khsabah 4 chapter one 4 a the microprocessor brain of the computer it controls the computer by executing programs stored in memory b the buses connect the different component to make processor communicate with memory and i o circuits 5 a eu execution unit assembly language for x86 processor 7th edition solutions - Jun 02 2023

web our resource for assembly language for x86 processor includes answers to chapter exercises as well as detailed information to walk you through the process step by step with expert solutions for thousands of practice problems you can take the guesswork out of studying and move forward with confidence find step by step solutions and answers assembly language wikipedia - Jul 23 2022

web in computer programming assembly language alternatively assembler language or symbolic machine code often referred to simply as assembly and commonly abbreviated as asm or asm is any low level programming language with a very strong correspondence between the instructions in the language and the architecture s machine code instructions

solution manual of assembly language programming and - Oct 06 2023

web sep 11 2018 solution manual of assembly language programming and organization of the ibm pc by ytha y yu charles marut 1 of 131 download now solution manual of assembly language programming and organization of the ibm pc by ytha y yu charles marut download as a pdf or view online for free

solutions manual arm assembly language google books - Feb 27 2023

web apr 28 2009 solutions manual arm assembly language crc press crc press apr 28 2009 376 pages suitable for those with some background in digital logic and high level programming this work serves as a text for new programmers as well as a reference for students and professionals

x86 64 assembly language programming with ubuntu - May 21 2022

web x86 64 assembly language programming with ubuntu ed jorgensen ph d version 1 1 44 may 2022

x86 assembly language reference manual oracle - May 01 2023

web manpagesfortheas 1 ld 1 anddis 1 utilities howthisbookisorganized chapter1 overviewofthesolarisx86assembler providesanoverviewofthex86

introduction to assembly language programming from soup to - Sep 24 2022

web jun 29 2023 3 getting started with assembly language programming 4 3 address instruction set 5 a more complete arm instruction set 6 machine code 7 program control flow and functions 8 procedural programming in assembly 9 function

format and recursion 10 arrays back matter

solutions manual for arm assembly language pdf arm - Aug 04 2023

web christopher hinds solutions manual for arm assembly language fundamentals and techniques second edition by william hohl and christopher hinds boca raton london new york

a beginners guide to assembly language using emu8086 - Apr 19 2022

web jul 22 2022 learn the fastest language aside from machine language embed assembly language in a higher level language to use features unsupported by the higher level language or for performance reasons fill in the knowledge gap for understanding how the higher level languages came to be assemblers and editors assemblers are programs

x86 assembly language reference manual oracle - Nov 26 2022

web tables table 1 instruction references 34 table 2 data transfer instructions 36 table 3 binary arithmetic instructions 39 table 4 decimal arithmetic instructions

assembler language reference ibm - Aug 24 2022

web the assembly language program defines the commands for assembling and linking a program extended instruction mnemonics the assembler supports a set of extended mnemonics and symbols to simplify assembly language programming migrating source programs the assembler issues errors and warnings if a source program contains

assembly language part 1 princeton university - Sep 05 2023

web in assembly language in a high level language write safer code understanding mechanism of potential security problems helps you avoid them even in high level languages understand what s happening under the hood someone needs to develop future computer systems maybe that will be you

arm assembly language solutions manual acm digital library - Jan 29 2023

web apr 3 2009 it focuses on what is needed to compile for arm details real assembly uses and explores situations that programmers may ultimately encounter save to binder create a new binder

instructor's solution manual with transparency masters the - Oct 26 2022

web this manual contains solutions or answers to the assignment problems at the end of each chapter these brief answers and solutions are strictly for use by the instructor throughout the solutions the notation after a signal name stands for overbar not also included in the cd are transparency masters for many of the illustrations in the

introduction to assembly language programming from soup to - $Jun\ 21\ 2022$

web may 1 2021 introduction to assembly language programming from soup to nuts arm edition description this is an arm assembly language textbook designed to be used in classes such as computer organization operating systems compilers or any other class that needs to provide the students with a overall of arm assembly language

getting started with arm assembly language - Jul 03 2023

web this guide introduces the basic concepts of arm assembly language shows you how to create and run assembly code and provides examples of assembly code for you to experiment with assembly language is a low level programming language just one step above the processor s native language machine code

chapter 2 instructions assembly language university of - Mar 31 2023

web instructions assembly language reading the corresponding chapter in the 2nd edition is chapter 3 in the 3rd edition it is chapter 2 and appendix a and in the 4th edition it is chapter 2 and appendix b 2 1 instructions and instruction set the language to command a computer architecture is comprised of instructions and the

pc assembly lanugage massachusetts institute of technology - Dec 28 2022

web languages such as c and c learning to program in assembly language is an excellent way to achieve this goal other pc assembly language books still teach how to program the 8086 processor that the original pc used in 1980 the 8086 processor only supported real mode in this mode any program may address any memory or device in the all answers for edgenuity math grade - Apr 08 2022

connections if you endeavor to download and install the all answers for edgenuity math grade it is definitely easy then in the past currently we extend the link to purchase and make bargains to download and install all answers for edgenuity math grade as a result simple bigger better best stuart j murphy 2002 08 20 bigger better best edgenuity answer key r edgenuity reddit - Sep 25 2023

edgenuity answer key dm is preferable i m remaking this so it ll be more coherent i ve been adding the answer key to my world history and biology course i made this because i was having to do all the research and i would ve loved it if someone had already done this so now that it s made i hope it helps a lot of people to get work done accessing the assessment questions and answers edgenuity - May 21 2023

oct 7 2022 view the steps here under the more button select view course structure find the lesson to view the assessment answers click quiz answers all the assessment questions related to the lesson are found in the pop up window to view a question and answer select a question number

search quizlet edgenuity quizlet - Jun 22 2023

edgenuity horry county education c conway sc 0 study sets 1 member quizlet has study tools to help you learn anything improve your grades and reach your goals with flashcards practice tests and expert written solutions today accessing the guided notes for a course edgenuity - Oct 14 2022

jul 25 2023 reference edgeex accessing guided notes lessons from a number of courses include the guided notes feature where available the guides notes comprise of a separate student version and a teacher version the difference between the

two versions is that the teacher version contains answer keys to support the verification of notes students student information system student manual edgenuity inc - Jun 10 2022

8 edgenuity student manual the sidebar contains the following tools dashboard main page in the sis provides a quick snapshot of your progress and grades messages view e mail messages from your teachers and reply and create new messages mentor information view your assigned mentor s information course information view your courses course description

best tricks on how to utilize edgenuity answers in learning - Jul 11 2022

apr 6 2023 you can study the following subjects through edgenuity cumulative exam answers algebra 1 edgenuity test answers algebra 2 edgenuity sis answers geometry edgenuity unit test answers edgenuity chemistry answers social studies answers trigonometry answers mathematics answers for edgenuity answer keys for edgenuity economics

quizzes tests and exams edgenuity - Feb 06 2022

sep 21 2023 courses assessments quizzes tests and exams september 21 2023 12 22 print article frequently asked questions if the quiz is customized out from a student s course will the questions from the lesson appear on any tests or exams if students pass an assessment can they take it again to raise their score

all answers for edgenuity math 2023 lms mobisoftinfotech - Aug 12 2022

edgenuity answers 7th grade math answers for 2023 exams webthe units of study are summarized below unit 1 proportional relationships and percents unit 2 operations with integers unit 3 operations with rational numbers and similar triangles edgenuity com oklahoma syllabi math mathematics 7 syllabus pdf

how to cheat on edgenuity 123homework - Nov 15 2022

most a students have found this method to be a worthwhile edgenuity hack for most short answer tests you can get a 100 grade let s see how the edgenuity grading system works its ai searches for keywords it expects to see in students answers if you are able to incorporate all of the keywords into your answers you may be guaranteed

edgenuity answers 7th grade math answers for 2023 exams - Apr 20 2023

speed downloads edgenuity answers 7th grade math most popular 3620 kb s 2275 edgenuity answers 7th grade math updated 3937 kb s 2788 edgenuity answers 7th grade math checked 3680 kb s 3948 edgenuity answers 7th grade math full 1608 kb s 9101 edgenuity answers math 7th grade myilibrary org

these students figured out their tests were graded by ai the verge - Feb 18 2023

sep 3 2020 he d completed the first assignment for his seventh grade history class on edgenuity an online platform for virtual learning he d received a 50 out of 100 that wasn t on a practice test

all answers for edgenuity math 2023 esource svb - Mar 19 2023

2 all answers for edgenuity math 2022 12 12 grades 6 12 by randall e groth explores how research in mathematics education can inform teaching practice in grades 6 12 the author shows preservice mathematics teachers the value of being a researcher constantly experimenting with methods for developing students mathematical thinking and get accurate edgenuity answers pass the courses january - Aug 24 2023

aug 17 2022 looking for best edgenuity answers related to algebra 1 and algebra 2 you must also be among the students who search for edgenuity answer keys to score best in cumulative exam edgenuity but dot know where to find the accurate answers

loading - Mar 07 2022

loading

edgenuity wikipedia - May 09 2022

edgenuity has been criticized for the standardization of their test questions the nature of the standardization causes students who failed a test to receive a very similar set of questions the second attempt making it easy to guess answers via trial and error

edgenuity flashcards and study sets quizlet - Dec 16 2022

learn edgenuity with free interactive flashcards choose from 5 000 different sets of edgenuity flashcards on quizlet

imagine edgenuity student help resources - Sep 13 2022

taking notes for math and english courses 2 59 taking notes for science and social studies courses 2 32 tools for taking notes 3 18 note taking in the digital world 2 10 downloads edgenuity student guide troubleshooting tips for accessing edgenuity at home powerspeak getting started video transcript where to find student reports

edgenuity algebra flashcards and study sets guizlet - Jan 17 2023

learn edgenuity algebra with free interactive flashcards choose from 392 different sets of edgenuity algebra flashcards on quizlet

edgenuity answers r edgenuity reddit - Jul 23 2023

apr 25 2020 there might be an easier way but what i do is copy paste the question in an incognito tab and then go to brainly and then log in then peep the answer and the close out of the window this is important and then repeat u could just use a regular tab but youd have to keep logging out of brainly so my mehtods easier imo lmk if it woerk