

Basic Education

KwaZulu-Natal Department of Education REPUBLIC OF SOUTH AFRICA

UMLAZI DISTRICT

MATHEMATICS

STATISTICS, PROBABILITY & TRIGONOMETRY

TERM 3 2023

INFROMAL TASK

GRADE 11

MARKS: 60

TIME: 1 hour

EXAMINER: MR N MBHELE

Mpumalanga Grade 9 Past Maths Questions Paper Memo

Huangqi Zhang

Mpumalanga Grade 9 Past Maths Questions Paper Memo:

As recognized, adventure as skillfully as experience very nearly lesson, amusement, as skillfully as accord can be gotten by just checking out a books **Mpumalanga Grade 9 Past Maths Questions Paper Memo** next it is not directly done, you could endure even more with reference to this life, something like the world.

We have enough money you this proper as well as easy exaggeration to get those all. We provide Mpumalanga Grade 9 Past Maths Questions Paper Memo and numerous books collections from fictions to scientific research in any way. accompanied by them is this Mpumalanga Grade 9 Past Maths Questions Paper Memo that can be your partner.

https://www.splashdogs.com/About/scholarship/HomePages/landrover discovery wiring diagrams discovery iii.pdf

Table of Contents Mpumalanga Grade 9 Past Maths Questions Paper Memo

- 1. Understanding the eBook Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - The Rise of Digital Reading Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Personalized Recommendations
 - Mpumalanga Grade 9 Past Maths Questions Paper Memo User Reviews and Ratings
 - Mpumalanga Grade 9 Past Maths Questions Paper Memo and Bestseller Lists
- 5. Accessing Mpumalanga Grade 9 Past Maths Questions Paper Memo Free and Paid eBooks

- Mpumalanga Grade 9 Past Maths Questions Paper Memo Public Domain eBooks
- Mpumalanga Grade 9 Past Maths Questions Paper Memo eBook Subscription Services
- o Mpumalanga Grade 9 Past Maths Questions Paper Memo Budget-Friendly Options
- 6. Navigating Mpumalanga Grade 9 Past Maths Questions Paper Memo eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mpumalanga Grade 9 Past Maths Questions Paper Memo Compatibility with Devices
 - Mpumalanga Grade 9 Past Maths Questions Paper Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Highlighting and Note-Taking Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - o Interactive Elements Mpumalanga Grade 9 Past Maths Questions Paper Memo
- 8. Staying Engaged with Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Mpumalanga Grade 9 Past Maths Questions Paper Memo
- 9. Balancing eBooks and Physical Books Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mpumalanga Grade 9 Past Maths Questions Paper Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Setting Reading Goals Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - Fact-Checking eBook Content of Mpumalanga Grade 9 Past Maths Questions Paper Memo
 - 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

Mpumalanga Grade 9 Past Maths Questions Paper Memo Introduction

Mpumalanga Grade 9 Past Maths Questions Paper Memo Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Mpumalanga Grade 9 Past Maths Ouestions Paper Memo Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Mpumalanga Grade 9 Past Maths Questions Paper Memo: This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Mpumalanga Grade 9 Past Maths Questions Paper Memo: Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Mpumalanga Grade 9 Past Maths Questions Paper Memo Offers a diverse range of free eBooks across various genres. Mpumalanga Grade 9 Past Maths Ouestions Paper Memo Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Mpumalanga Grade 9 Past Maths Questions Paper Memo Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Mpumalanga Grade 9 Past Maths Questions Paper Memo, especially related to Mpumalanga Grade 9 Past Maths Questions Paper Memo, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Mpumalanga Grade 9 Past Maths Questions Paper Memo, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Mpumalanga Grade 9 Past Maths Questions Paper Memo books or magazines might include. Look for these in online stores or libraries. Remember that while Mpumalanga Grade 9 Past Maths Questions Paper Memo, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Mpumalanga Grade 9 Past Maths Questions Paper Memo eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Mpumalanga Grade 9 Past Maths Questions

Paper Memo full book, it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Mpumalanga Grade 9 Past Maths Questions Paper Memo eBooks, including some popular titles.

FAQs About Mpumalanga Grade 9 Past Maths Questions Paper Memo Books

What is a Mpumalanga Grade 9 Past Maths Questions Paper Memo PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. How do I create a Mpumalanga Grade 9 Past Maths Questions Paper Memo **PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. How do I edit a Mpumalanga Grade 9 Past Maths Questions Paper Memo **PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. How do I convert a Mpumalanga Grade 9 Past Maths Questions Paper Memo PDF to another file format? There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. How do I password-protect a Mpumalanga Grade 9 Past Maths Questions Paper Memo PDF? Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Mpumalanga Grade 9 Past Maths Questions Paper Memo:

landrover discovery wiring diagrams discovery iii land rover series 1 service manual user guide lambs neck stew recipe

land rover discovery ii user manual lappel de la nuit la leacutegende des loups t

lancia delta integrale 1986 1993 workshop service manual

land cruiser prado user manual

land rover discovery 3 owners manual

large pork crown roast recipe landrover r380 gearbox transmission workshop manual

lanalyse films dition jacques aumont large minnie mouse face tracer lappeacutetit du geacutenie

lara adrian midnight breed

lamour au galop girly comedy t

Mpumalanga Grade 9 Past Maths Questions Paper Memo:

lassie come home knight eric kirmse marguerite - Apr 12 2023

web sep 18 2007 lassie is joe s prize collie and constant companion but when joe s father loses his job lassie must be sold three times she escapes from her new owner and three times she returns home to joe until finally she is taken to the remotest part of scotland too far a journey for any dog to make alone but lassie is not just any dog

lassie come home by eric knight goodreads - Jun 14 2023

web lassie come home by eric knight is a novel published in 1940 and when it was made into a movie in 1943 the character rose to prominence sadly eric knight never got to see the fame that lassie acquired because he was killed in a world war ii plane crash in 1943

lassie come home by eric knight youtube - Feb 27 2022

web jan 3 2022 miss erin s chapter book story time of lassie come home by eric knight published by holt rinehart winston 1968 original copyright 1940

lassie come home eric knight home page - Dec 08 2022

web this is dedicated to eric m knight author of the beloved children's novel lassie come home we hope you enjoy learning about the creator of what has become the world's most well known canine lassie eric knight on the movie set with pal eric knight was born april 10 1897 in yorkshire england

lassie come home eric knight google books - Oct 06 2022

web lassie come home eric knight macmillan 1940 juvenile fiction 248 pages a beloved classic gets a beautiful new look lassie is joe s prize collie and constant companion but when joe s

lassie come home kindle edition by eric knight literature - Jun 02 2022

web jan 24 2019 lassie come home kindle edition by eric knight author format kindle edition 4 7 422 ratings see all formats and editions kindle 0 99 read with our free app hardcover 5 98 12 used from 5 00 2 new from 6 28 1 collectible from 22 99 filled with danger and adventure this is the classic story of the love and loyalty shared by a boy

lassie come home knight eric 1897 1943 archive org - Nov 07 2022

web 248 pages 20 cm a collie undertakes a thousand mile journey in order to once again meet her former master at the school gate lassie is joe s prize collie and constant companion but when joe s father loses his job lassie must be sold lassie come home eric knight google books - Sep 05 2022

web jul 31 2014 lassie come home lassie come home is a timeless classic this famous novel tells the story of a faithful collie who is determined to be reunited with her owner lassie encounters many dangers and obstacles lassie come home eric knight book summary - Jan 09 2023

web lassie come home written by eric knight is a heartwarming story about the loyalty of a dog to his family since publishing it has remained one of the favorite books for children the book was written in 1940 and has been translated into numerous different languages and editions thanks to the immense popularity of this moving story about

lassie come home wikipedia - Feb 10 2023

web lassie come home is a 1943 metro goldwyn mayer technicolor feature film starring roddy mcdowall and canine actor pal in a story about the profound bond between yorkshire boy joe carraclough and his rough collie lassie 3 eric knight author of lassie come home goodreads - Mar 11 2023

web eric knight born december 13 1901 died january 15 1943 edit data an author who is mainly notable for creating the fictional collie lassie he was a native of yorkshire in england and had a varied career including service in the canadian army during world war i and spells as an art student newspaper reporter and hollywood screenwriter

lassie come home eric knight google books - Dec 28 2021

web sep 18 2007 lassie come home eric knight macmillan sep 18 2007 juvenile fiction 256 pages lassie is joe s prize collie

and constant companion but when joe s father loses his job lassie must be sold three times she escapes from her new owner and three times she returns home to joe until finally she is taken to the remotest part of eric knight wikipedia - Jul 15 2023

web eric mowbray knight 10 april 1897 15 january 1943 was an english novelist and screenwriter who is mainly known for his 1940 novel lassie come home which introduced the fictional collie lassie he took american citizenship in 1942 shortly before his death

lassie come home wikipedia - Aug 16 2023

web lassie come home is a novel written by eric knight about a rough collie s trek over many miles to be reunited with the boy she loves author eric knight introduced the reading public to the canine character of lassie in a magazine story published on december 17 1938 in the saturday evening post a story which he later expanded to a novel and lassie come home 75th anniversary edition knight eric - Aug 04 2022

web oct 13 2015 lassie come home 75th anniversary edition knight eric kirmse marguerite martin ann m 9781250062888 amazon com books books children s books animals enjoy fast free delivery exclusive deals and award winning movies tv shows with prime try prime and start saving today with fast free delivery buy new 14 99

loading interface goodreads - Jan 29 2022

web discover and share books you love on goodreads

editions of lassie come home by eric knight goodreads - Jul 03 2022

web lassie come home kindle edition published october 13th 2015 by henry holt and co byr 75th anniversary edition kindle edition 257 pages more details want to read rate this book 1 of 5 stars 2 of 5 stars 3 of 5 stars 4 of 5 stars 5 of 5 stars lassie come home by eric knight goodreads - May 13 2023

web lassie come home by eric knight marguerite kirmse illustrations 4 18 rating details 22 585 ratings 353 reviews a beloved classic gets a beautiful new look lassie is joe s prize collie and constant companion but when joe s father loses his

lassie come home eric knight google books - Mar 31 2022

web feb 10 2016 at the end when joe has given up all hope of ever seeing his long lost companion again the weary lassie returns and he finds her waiting for him at the school gates in her accustomed spot just like old times lassie and joe are joyfully reunited against all the odds lassie has come home

<u>lassie come home knight eric 1897 1943 archive org</u> - May 01 2022

web a collie undertakes a thousand mile journey in order to once again meet her former master at the school gate $5\ 8\ 10$ and up access restricted item true addeddate $2011\ 10\ 06\ 14\ 41\ 54$ boxid

2008 k hemodialysis system fmcna - Aug 02 2022

web about this manual the purpose of the 2008 series remote protocol manual is to provide a guideline for software developers to generate external applications to be used in

2008t hemodialysis machine operator s manual acme revival - Nov 05 2022

web the 2008k hemodialysis machine was designed and built to comply with the product specifications outlined in the 2008k operator s manual p n 490042 it is the intention

2008 t hemodialysis system fmcna - Feb 08 2023

web aug 8 2021 the 2008t hemodialysis machine is manufactured by fresenius usa inc 4040 nelson avenue concord ca 94520 800 227 2572 installation maintenance

fresenius medical care 4008 e technical manual - Sep 03 2022

web dialysate dialysis temperature 37 c dialysate flow 300 ml min conductivity 13 ms cm when performing a direct measurement the following precautions also must be

service manual hemodialysis system 5008 frank s hospital - Oct 04 2022

web purpose this technical manual is intended for service technicians and is to be used for first studies to acquire a basic knowledge and for reference purposes for tsc

fresenius medical care 2008k technical - Jan 07 2023

web fresenius medical care 5008 sm 1 08 04 2 3 service central europe fresenius medical care deutschland gmbh geschäftsbereich zentraleuropa kundendienst servicecenter

frank s dialysis units - Mar 29 2022

web the facility medical director or by fresenius usa inc field service bulletins and other documentation is located on the internet at fmcna com for further information

spare parts manual fresenius medical care - Dec 26 2021

web who we are fresenius medical care is the world's leading provider of products and services for individuals with renal diseases of which around 3 9 million patients

get support fmcna - Jan 27 2022

web fresenius medical care fresenius 4008s is a hemodialysis machine used for the treatment of end stage renal disease esrd or chronic kidney failure it is one of the

service manual fresenius medical care fresenius 4008s - Oct 24 2021

operator s manuals hemodialysis hd fmcna - May 11 2023

web view and download fresenius medical care 5008 operating instructions manual online hemodialysis system 5008 medical

equipment pdf manual download

fresenius 4008 hemodialysis system frank s hospital workshop - Jul 01 2022

web service manual 1 19 6 mb download b braun dialog service manual 2 2 8 mb download caridian bct spectra optia apheresis system service manual 9 6 mb download cobe

2008k preventive maintenance procedures fmcna - Dec 06 2022

web view and download fresenius medical care 4008 e technical manual online hemodialysis machine 4008 e medical equipment pdf manual download also for

technical documentation fmcna - Apr 10 2023

web the 2008t hemodialysis machine was designed and built to comply with the product specifications outlined in the 2008t operator s manual p n 490122 it is the intention of

fresenius free pdf manuals download manualslib - Feb 25 2022

web mar 7 2015 library of dialysis technical manuals for technicians and professionals from fresenius mar cor ameriwater zoll and many more

fresenius medical care 4008 s service - Aug 14 2023

web the 2008k hemodialysis machine is manufactured by fresenius usa inc 4040 nelson avenue concord ca 94520 installation maintenance calibration and other technical

fresenius medical care 5008 service manual - Jun 12 2023

web select from the links below to access available technical manuals for your particular machine type to view pdf files you need to download adobe acrobat reader for

dialysis technical manuals for technicians biomedix dialysis - Nov 24 2021

2008 series remote protocol manual fresenius medical care - Apr 29 2022

web fresenius medical care north america welcomes your inquiries for technical support and product training call 800 227 2572 toll free 24 7 operator s manuals

fresenius medical care 5008 operating instructions - Mar 09 2023

web the spare parts manual for the model 2008k and other information may be found on our web site at fmcna com indications for use the 2008k hemodialysis machine is

5008s fresenuis service manual pdf nature scribd - May 31 2022

web fresenius medical care 4008 e technical manual 595 pages hemodialysis machine description of machine functions and malfunctions description of the t1 test

2008k hemodialysis machine operator s manual fmcna - Jul 13 2023

web operator's manuals hemodialysis hd select from the links below to access available operator's manuals for your particular machine type to view pdf files you need to

home fresenius medical care - Sep 22 2021

molecular electromagnetism a computational chemistry - May 07 2022

web molecular electromagnetism book read reviews from world's largest community for readers this is a textbook on the theory and calculation of molecular e

effect of terahertz electromagnetic field on single file water - Jan 03 2022

web sep $18\ 2023$ in this study we utilize molecular dynamics simulations to systematically analyze the transport of single file water through a carbon nanotube cnt under terahertz electromagnetic fields focusing on the cnt length field chapter 1 - Mar $05\ 2022$

web molecular electromagnetism a computational chemistry approach p 1 47 2 the schrödinger equation in the presence of fields a complete quantum mechanical treatment of the interaction of

molecular electromagnetism a computational chemistry approach - Apr 18 2023

web nov 4 2012 molecular electromagnetism a computational chemistry approach authors stephan p a sauer discover the world's research 2 3 billion citations public full text content uploaded by stephan

molecular electromagnetism a computational chemistry - Jul 09 2022

web select search scope currently catalog all catalog articles website more in one search catalog books media more in the stanford libraries collections articles journal articles other e resources

molecular electromagnetism stephan p a sauer oxford - May 19 2023

web nov 1 2011 introduction to theory and calculation of molecular electromagnetic and spectroscopic properties textbook with many exercises for self study thorough derivation of a wide range of molecular properties comparison of many modern computational chemistry methods requires no more than basic knowledge of quantum mechanics

molecular electromagnetism a computational chemistry approach - Sep 11 2022

web nov 1 2011 $\,$ molecular electromagnetism a computational chemistry approach oxford graduate texts 1st edition by stephan p a sauer author 4 ratings part of oxford graduate texts 41 books

molecular electromagnetism a computational chemistry - Dec 14 2022

web molecular electromagnetism a computational chemistry approach oxford graduate texts sauer stephan p a amazon com tr kitap

computational design of magnetic molecules and their nature - Apr 06 2022

web oct 10 2022 article computational design of magnetic molecules and their environment using quantum chemistry machine learning and multiscale simulations download pdf review article published 10

molecular electromagnetism a computational chemistry approach - Feb 16 2023

web aug 25 2011 request pdf on aug 25 2011 stephan p a sauer published molecular electromagnetism a computational chemistry approach find read and cite all the research you need on researchgate molecular electromagnetism a computational chemistry approach - Aug 22 2023

web aug 25 2011 this book is concerned with molecular electromagnetic properties and the interaction of molecules with static electric and magnetic fields as well as with the time dependent fields of electromagnetic radiation

molecular electromagnetism a computational chemistry approach - Jan 15 2023

web aug 25 2011 the book covers the derivation of the molecular hamiltonian in the presence of electromagnetic fields and of time independent and time dependent perturbation theory in the form of response

introduction molecular electromagnetisma computational chemistry - Jul 21 2023

web abstract this introductory chapter provides an overview of the book it defines the term molecular properties and presents some of the best known examples of molecular properties such as electric dipole moment frequency dependent polarizability the chemical shift and indirect nuclear spin spin coupling constant of nmr spectroscopy or molecular electromagnetism a computational chemistry - Oct 12 2022

web cover contents 1 introduction part i quantum mechanical fundamentals 2 the schrödinger equation in the presence of fields 2 1 the time dependent schrödinger equation 2 2 the born oppenheimer approximation 2 3 electron charge and current density 2 4 the force due to electromagnetic fields 2 5 minimal coupling non

appendices molecular electromagnetism a computational chemistry - Mar 17 2023

web appendices molecular electromagnetism a computational chemistry approach oxford academic in this appendix explicit expressions for all the perturbation operators are collected they were derived in chapters 4 to 8 by expressing the scalar and vecto

molecular electromagnetism a computational chemistry approach - Nov 13 2022

web get this from a library molecular electromagnetism a computational chemistry approach stephan p a sauer this is a textbook on the theory and calculation of molecular electromagnetic and spectroscopic properties designed for a one semester course with lectures and exercise classes the idea of the book

molecular electromagnetism a computational chemistry - Jun 20 2023

web molecular electromagnetism a computational chemistry approach oxford academic in this final part we want to discuss

Mpumalanga Grade 9 Past Maths Questions Paper Memo

quantum chemical methods that can be used to calculate values of all the electric magnetic and spectral properties that w electromagnetism new scientist - Feb 04 2022

web electromagnetism the fundamental force responsible for electricity magnetism stable atoms and chemistry by richard webb sakkmesterke alamy when asking what electromagnetism one of

computational chemistry wikipedia - Aug 10 2022

web computational chemistry is a branch of chemistry that uses computer simulation to assist in solving chemical problems it uses methods of theoretical chemistry incorporated into computer programs to calculate the structures and properties of molecules groups of molecules and solids

short review of electronic structure methods molecular - Jun 08 2022

web molecular electromagnetism a computational chemistry approach oxford graduate texts oxford 2011 online edn oxford academic 17 dec 2013 doi org 10 1093 acprof oso 9780199575398 003 0009 accessed 24 aug 2022