# Manual de Usuario



### SAMSUNG

## Uso del manual

Gracias por adquirir este dispositivo móvil de Samsung. Este dispositivo le proporcionará comunicaciones móviles y entretenimiento de alta calidad sobre la base de la extraordinaria tecnología y los elevados estándares de Samsung.

Este manual del usuario ha sido diseñado especificamente para guiarlo a través de las características y funciones del dispositivo.

#### Leer primero

- Lea atentamente este manual antes de comenzar a usar el dispositivo a fin de garantizar el uso correcto y seguro.
- Las descripciones de este manual se basan en los ajustes predeterminados del dispositivo.
- Es posible que las imágenes y las capturas de pantalla utilizadas en este manual del usuario no sean exactamente iguales al producto real.
- Usø del manual
- Para actualizar el software del dispositivo móvil, visite www.samsungmobile.com.
- Las fuentes de sonido, los fondos de pantalla y las imágenes suministradas con este dispositivo tienen licencias de uso limitado entre Samsung y sus respectivos propietarios. Extraer y usar estos materiales para propósitos comerciales o de otra naturaleza constituye una violación a las leyes de derechos de autor. Samsung no se responsabiliza por ese tipo de infracciones por parte del usuario.

- Es posible que el contenido de este manual no coincida con el producto o el software suministrados por el proveedor de servicio o el operador telefónico. Además, el contenido puede modificarse sin previo aviso. Para obtener la versión más actualizada de este manual, visite www.samsungmobile.com.
- Las funciones disponibles y los servicios adicionales pueden variar según el dispositivo, el software o el proveedor del servicio.
- El formato y la entrega de este manual del usuario están basados en los sistemas operativos de Google Android, pero pueden variar en función del sistema operativo del usuario.
- Las aplicaciones y sus funciones pueden variar según el país, la región o las especificaciones de hardware. Samsung no es responsable de los problemas de rendimiento provocados por aplicaciones de terceros.
- Samsung no es responsable de los problemas de rendimiento ni de las incompatibilidades provocadas por la modificación de los parámetros de registro por parte del usuario.



Precaución — situaciones que pueden ocasionar daños a su dispositivo o a otros equipos.



Nota — notas, consejos de uso o información adicional.

► Consulte páginas con información relacionada. Por ejemplo: ► pág. 12 (indica que debe "consultar la página 12")

# **Samsung Galaxy Mini Gt S55701 Manual**

**Christian G. Meyer** 

Samsung Galaxy Mini Gt S5570l Manual:

When people should go to the books stores, search foundation by shop, shelf by shelf, it is in fact problematic. This is why we give the ebook compilations in this website. It will definitely ease you to look guide **Samsung Galaxy Mini Gt S5570l Manual** as you such as.

By searching the title, publisher, or authors of guide you in point of fact want, you can discover them rapidly. In the house, workplace, or perhaps in your method can be all best area within net connections. If you goal to download and install the Samsung Galaxy Mini Gt S5570l Manual, it is agreed easy then, since currently we extend the partner to buy and create bargains to download and install Samsung Galaxy Mini Gt S5570l Manual appropriately simple!

https://crm.avenza.com/public/book-search/default.aspx/Service Manual Jeep Grand Cherokee Crd.pdf

#### **Table of Contents Samsung Galaxy Mini Gt S5570l Manual**

- 1. Understanding the eBook Samsung Galaxy Mini Gt S5570l Manual
  - The Rise of Digital Reading Samsung Galaxy Mini Gt S5570l Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Samsung Galaxy Mini Gt S5570l Manual
  - 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 Samsung Galaxy Mini Gt S5570l Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Samsung Galaxy Mini Gt S5570l Manual
  - Personalized Recommendations
  - Samsung Galaxy Mini Gt S5570l Manual User Reviews and Ratings
  - Samsung Galaxy Mini Gt S5570l Manual and Bestseller Lists

- 5. Accessing Samsung Galaxy Mini Gt S5570l Manual Free and Paid eBooks
  - o Samsung Galaxy Mini Gt S5570l Manual Public Domain eBooks
  - Samsung Galaxy Mini Gt S5570l Manual eBook Subscription Services
  - Samsung Galaxy Mini Gt S5570l Manual Budget-Friendly Options
- 6. Navigating Samsung Galaxy Mini Gt S5570l Manual eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Samsung Galaxy Mini Gt S5570l Manual Compatibility with Devices
  - Samsung Galaxy Mini Gt S5570l Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Samsung Galaxy Mini Gt S5570l Manual
  - Highlighting and Note-Taking Samsung Galaxy Mini Gt S5570l Manual
  - Interactive Elements Samsung Galaxy Mini Gt S5570l Manual
- 8. Staying Engaged with Samsung Galaxy Mini Gt S5570l Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Samsung Galaxy Mini Gt S5570l Manual
- 9. Balancing eBooks and Physical Books Samsung Galaxy Mini Gt S5570l Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Samsung Galaxy Mini Gt S5570l Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Samsung Galaxy Mini Gt S5570l Manual
  - Setting Reading Goals Samsung Galaxy Mini Gt S5570l Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Samsung Galaxy Mini Gt S5570l Manual
  - Fact-Checking eBook Content of Samsung Galaxy Mini Gt S5570l Manual
  - 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

#### Samsung Galaxy Mini Gt S5570l Manual Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Samsung Galaxy Mini Gt S5570l Manual free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Samsung Galaxy Mini Gt S5570l Manual free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Samsung Galaxy Mini Gt

S5570l Manual free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Samsung Galaxy Mini Gt S5570l Manual. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Samsung Galaxy Mini Gt S5570l Manual any PDF files. With these platforms, the world of PDF downloads is just a click away.

#### FAQs About Samsung Galaxy Mini Gt S5570l Manual Books

- 1. Where can I buy Samsung Galaxy Mini Gt S5570l Manual 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 Samsung Galaxy Mini Gt S5570l Manual 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 Samsung Galaxy Mini Gt S5570l Manual 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 Samsung Galaxy Mini Gt S5570l Manual 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 Samsung Galaxy Mini Gt S5570l Manual 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 Samsung Galaxy Mini Gt S5570l Manual:

service manual jeep grand cherokee crd

service manual jeep grand cherokee 1999

service manual jeep cherokee xj

service manual for polaris rzr

service manual hitachi 60ux57b projection color tv

service manual honda cbx 250

service manual for holden barina 2015

service manual pitman polecat

service manual partner

service manual grasshopper 928

service manual hach 2100n

service manual for trucks chevrolet

service manual mitsubishi l300 4x4 1991

service manual nissan hardbody

service manual for harley davidson 2010 dyna

#### Samsung Galaxy Mini Gt S5570l Manual:

economics resources cambridge university press - Mar 14 2023

web economics for the ib diploma develop the next generation of economic minds with this thought provoking series for first examinations 2022 ellie tragakes

economics resources cambridge university press - Sep 20 2023

web subject s economics qualification ib diploma author s ellie tragakes available from september 2020 develop the next generation of economic minds with this thought provoking series for first examinations 2022

economics for the ib diploma coursebook with digital access 2 - Apr 15 2023

web jul 30 2020 buy economics for the ib diploma coursebook with digital access 2 years 3 by tragakes ellie isbn 9781108847063 from amazon s book store everyday low prices and free delivery on eligible orders economics for the ib diploma with cd rom google books - Jul 06 2022

web nov 3 2011 ellie tragakes cambridge university press nov 3 2011 juvenile nonfiction 576 pages a comprehensive new edition of economics for the ib diploma

ellie tragakes cambridge university press - Jun 05 2022

web economics for the ib diploma 2nd edition a comprehensive new edition of economics for the ib diploma publication date 31 10 2011 view product ellie tragakes is a highly experienced author and a widely published economist holding a ph d degree she is also an economics professor at the american college of greece athens

#### economics ellie tragakes third edition cambridge 2020 - Sep 08 2022

web economics for the ib diploma coursebook ellie tragakes third edition digital access together with ib teachers ib economics executive preview indb 1 14 04 20 10 43 pm

#### **isbn 9781108847063 economics for the ib diploma** - Feb 01 2022

web economics add to booklist note if book originally included a cd rom or dvd they must be included or some buyback vendors will not offer the price listed here isbn9781108847063 economics for the ib diploma coursebook with digital access 2 years 3rd author s ellie tragakes isbn9781108847063

economics for the ib diploma cambridge university press - Oct 09 2022

web this comprehensive new book available as both print and e book has been written by the highly experienced author ellie tragakes and has been designed for class use and independent study the text includes in depth analysis of all topics included in the ib syllabus at both standard and higher levels

#### economics for the ib diploma digital teacher s resource - Jan 12 2023

web jun 10 2021 primary secondary economics for the ib diploma digital teacher s resource ib diploma group 3 individuals

and societies author's ellie tragakes peter rock lacroix region australia new zealand levels year 11 year 12 subject area international education business economics and legal

download economics for the ib diploma coursebook by ellie tragakes - Aug 07 2022

web economics for the ib diploma coursebook author ellie tragakes language english isbn 1108847064 9781108847063 year 2020 pages 694 file size 386 3 mb total downloads 3 578 total views 15 632 edition 3 pages in file 698 identifier 1108847064 9781108847063 color 1 paginated 1 org file size 405 112 591

#### economics cambridge university press assessment - May 16 2023

web economics for the ib diploma second edition ellie tragakes cambridge university press s mission is to advance learning knowledge and research worldwide our ib diploma resources aim to encourage learners to explore concepts ideas and topics that have local and global significance

economics for the ib diploma coursebook with digital access 2 - May 04 2022

web economics for the ib diploma coursebook with digital access 2 years by tragakes ellie isbn 10 1108847064 isbn 13 9781108847063 cambridge university press ellie tragakes published by cambridge university press 2020 isbn 10 1108847064 isbn 13 9781108847063 new unk

#### economics for the ib diploma digital teacher's resource access - Mar 02 2022

web jun 17 2021 economics for the ib diploma digital teacher's resource access card 3rd edition by ellie tragakes author peter rock lacroix author see all formats and editions printed access code 97 80 1 used from 136 05 15 new from 88 35 economics for the ib diploma coursebook ellie tragakes - Dec 11 2022

web sep 3 2020 economics for the ib diploma coursebook ib diploma ellie tragakes third edition paperback 03 sep 2020 57 16 add to basket includes delivery to the united states 10 copies available online usually dispatched within two working days publisher s synopsis

economics for the ib diploma tragakes ellie free download - Apr 03 2022

web economics for the ib diploma by tragakes ellie publication date 2009 topics economics examinations study guides economics study and teaching publisher cambridge new york cambridge university press

#### economics for the ib diploma coursebook with digital access 2 - Jul 18 2023

web economics for the ib diploma coursebook with digital access 2 years tragakes ellie amazon com tr kitap kitap economics resources cambridge university press - Feb 13 2023

web subject s economics qualification ib diploma author s ellie tragakes available from november 2011 a comprehensive new edition of economics for the ib diploma

economics for the ib diploma coursebook ebook 3rd ed - Nov 10 2022

web series ib diploma author ellie tragakes imprint cambridge university press language english read online you can read this ebook online in a web browser without downloading anything or installing software download file formats this ebook is available in epub encrypted digital rights management drm

economics resources cambridge university press - Jun 17 2023

web subject s economics qualification ib diploma author s ellie tragakes peter rock lacroix available from june 2021 develop the next generation of economic minds with this thought provoking series for first examinations 2022

#### economics for the ib diploma coursebook with digital access - Aug 19 2023

web sep 16 2019 ellie tragakes publication date 2019 09 16 topics economics ib collection opensource language english develop the next generation of economic minds with this thought provoking series for first examinations 2022

#### lesson info for human karyotyping explorelearning gizmos - Feb 09 2023

web student exploration human karyotyping vocabulary autosome chromosomal disorder chromosome genome karyotype sex chromosome prior knowledge question do this

gizmos student exploration human karyotyping answer key - Jun 01 2022

web 3 edit human karyotyping gizmo assessment answers form rearrange and rotate pages insert new and alter existing texts add new objects and take advantage of other helpful

gizmo human karyotyping answers fill out sign online dochub - Apr 30 2022

web aug 21 2023 the human karyotyping gizmo and accompanying answer key provides an engaging interactive way for students to practice this critical scientific skill by

#### laiba sajjad human karyotyping gizmo studocu - Aug 15 2023

web name laiba sajjad date 05 24 student exploration human karyotyping directions follow the instructions to go through the simulation respond to the questions and

human karyotyping gizmo explore learning assessment - Jun 13 2023

web correct answer c karyotype c explanation the karyotype shown in answer c has 46 chromosomes the normal number of human chromosomes and includes two x

#### human karyoptying answers biology pdf name turkan - Oct 05 2022

web 100 1 view full document human karyotyping answer key vocabulary autosome chromosomal disorder chromosome karyotype sex chromosome prior knowledge

#### gizmo simulation human karyotyping flashcards quizlet - May 12 2023

web gizmo simulation human karyotyping 4 2 6 reviews why do you think humans have two sets of 23 chromosomes click the card to flip humans have two sets of 23

#### biology gizmo human karyotyping flashcards quizlet - Jul 14 2023

web terms in this set 5 which of the karyotypes shown is from a normal female letter c karyotype c in order from left to right to which groups do the chromosomes shown

human karyotyping gizmo answer key muzing org - Feb 26 2022

web view homework help human karyotyping gizmo vocabulary answers from govt 345 at liberty university vocabulary connections word definition illustration explaining the

gizmos human karyotyping se name studocu - Apr 11 2023

web gizmo warm up scientists use karyotypes to study the chromosomes in a cell a karyotype is a picture showing a cell s chromosomes grouped together in pairs in the human

#### sbi3u0 human karyotyping gizmo answers doc course hero - Aug 03 2022

web answer key for student exploration human karyotyping gizmo yeah reviewing a book answer key for student exploration human karyotyping gizmo could accumulate your

#### student exploration human karyotyping answered studypool - Sep 04 2022

web access to all gizmo lesson materials including answer keys customizable versions of all lesson materials  $human\ karyotyping\ gizmo\ explorelearning\ gizmos$  - Jul 02 2022

web 01 edit your human karyotyping gizmo answers online type text add images blackout confidential details add comments highlights and more 02 sign it in a few clicks draw

human karyotyping gizmo answer key activity a ozan atalan - Sep 23 2021

#### karyotyping gizmo answer key study finder - Oct 25 2021

student exploration human karyotyping amazon web services - Dec 07 2022

web gizmo warm up scientists use karyotypes to study the chromosomes in a cell a karyotype is a picture showing a cell s chromosomes grouped together in pairs in the human

#### gizmos lab human karyotyping name date - Mar 10 2023

web human karyotyping sort and pair the images of human chromosomes obtained in a scan find differences in the scans of the various patients to find out specific things that can

human karyotyping gizmo lesson info explorelearning - Nov 06 2022

web 1 why do you think humans have two sets of 23 chromosomes hint where did each set come from

human karyotyping se bio name studocu - Jan 08 2023

web human karyotyping sort and pair the images of human chromosomes obtained in a scan find differences in the scans of the various patients to find out specific things that can

#### get the free human karyotyping gizmo answers form pdffiller - Nov 25 2021

web karyotyping is one of many techniques that allow us to look for several thousand possible genetic diseases in humans you will evaluate 3 patients case histories complete their

#### human karyotyping gizmo vocabulary answers course hero - Dec 27 2021

web dec 26 2012 take a look at the simulation pane use thearrows to click through the numbered list of chromosomes at thebottom right of the pane similar documents access

gizmo simulation human karyotyping questions and answers 2023 - Jan 28 2022

web there is no one answer to this question as the gizmo is an interactive tool and the answers vary depending on how the user interacts with the gizmo generally the user

#### get the free human karyotyping gizmo answers form pdffiller - Mar 30 2022

web apr 26 2023 gizmo gizmo simulation human karyotyping questions and answers 2023 why do you think humans have two sets of 23 chromosomes humans have two

foundations for health promotion 5th edition 9780702085062 - Oct 08 2022

web apr 28 2016 the new edition of the highly successful foundations for health promotion continues to offer a wealth of information in a unique user friendly format containing

#### foundations for health promotion e book public - Nov 09 2022

web rev ed of health promotion jennie naidoo jane wills 2000 includes bibliographical references and index foundations for health promotion naidoo jennie free - Sep 07 2022

web apr 7 2022 description this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor

#### foundations for health promotion e book google books - Aug 18 2023

web feb 19 2016 the new edition of the highly successful foundations for health promotion continues to offer a wealth of information in a unique user friendly format containing

#### foundations for health promotion 9780702085062 us - Jan 11 2023

web this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor jane wills the book

foundations for health promotion e book google books - May 15 2023

web discover foundations for health promotion e book book an intriguing read explore foundations for health promotion e

book in z library and find free summary

foundations for health promotion jane wills google books - Dec 10 2022

web jun 16 2022 paperback this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor

#### foundations for health promotion 5th edition elsevier uk - Mar 13 2023

web foundations for health promotion e book foundations for health promotion e book edition 5 ebook written by jane wills read this book using google play books

#### foundations for health promotion e book book z library - Apr 14 2023

web foundations for health promotion 9780702085062 elsevier health home medicine and surgery clinical general medicine view all general medicine titles foundations for

#### buy foundations for health promotion 5e public health and - Apr 02 2022

web bóksala stúdenta sæmundargata 4 102 reykjavík sími 354 570 0777 boksala boksala is

foundations for health promotion 5th edition jane wills isbn - Jul 05 2022

web amazon in buy foundations for health promotion 5e public health and health promotion book online at best prices in india on amazon in read foundations for

#### health promotion planning strategies google books - May 03 2022

web apr 26 2023 at future trends of health promotion ideal for students in health promotion health education and public health fields introduction to health promotion prepares

#### foundations for health promotion e book public - Jun 16 2023

web jan 29 2009 foundations for health promotion e book jennie naidoo jane wills elsevier health sciences jan 29 2009 medical 328 pages hugely popular with

foundations for health promotion bóksalan - Dec 30 2021

#### foundations for health promotion 5th edition elsevier - Sep 19 2023

web mar 31 2022 this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor jane wills

foundations for health promotion e book foundations for - Feb 12 2023

web description this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor jane wills

foundations for health promotion public health and health - Aug 06 2022

web jan 16 2019 globally recognized as the definitive text on health promotion this fourth edition becomes ever more useful for public health and health promotion courses

foundations for health promotion public health and - Jun 04 2022

web foundations for health promotion naidoo wills 4th revised edition 2016 the new edition of the highly successful foundations for hea

foundations for health promotion e book google books - Jul 17 2023

web mar 31 2022 this hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice written by professor jane wills

foundations for health promotion e book public he pdf - Jan 31 2022