# HEWLETT-PACKARD



# **Hp 20s Scientific Calculator User Manual**

**Christian Drosten** 

## **Hp 20s Scientific Calculator User Manual:**

HP-20S Scientific Calculator Hewlett-Packard Company,1988 Microtimes ,1990-09 Consulting-specifying
Engineer ,1993 Catalog Handbook of Fine Chemicals Aldrich Chemical Company,1998 Canadian Electronics
Engineering ,1989 Scientific American ,1989 Monthly magazine devoted to topics of general scientific interest
Glamour ,1989 English Mechanics ,1923 English Mechanic and World of Science ,1914 English Mechanic
and Mirror of Science ,1886

Thank you definitely much for downloading **Hp 20s Scientific Calculator User Manual**. Maybe you have knowledge that, people have look numerous time for their favorite books when this Hp 20s Scientific Calculator User Manual, but stop stirring in harmful downloads.

Rather than enjoying a good ebook next a cup of coffee in the afternoon, instead they juggled gone some harmful virus inside their computer. **Hp 20s Scientific Calculator User Manual** is user-friendly in our digital library an online admission to it is set as public so you can download it instantly. Our digital library saves in merged countries, allowing you to get the most less latency time to download any of our books in imitation of this one. Merely said, the Hp 20s Scientific Calculator User Manual is universally compatible as soon as any devices to read.

https://staging.conocer.cide.edu/About/browse/Download PDFS/Intua Digital Communication Lab Manual.pdf

## **Table of Contents Hp 20s Scientific Calculator User Manual**

- 1. Understanding the eBook Hp 20s Scientific Calculator User Manual
  - The Rise of Digital Reading Hp 20s Scientific Calculator User Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Hp 20s Scientific Calculator User Manual
  - 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 Hp 20s Scientific Calculator User Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Hp 20s Scientific Calculator User Manual
  - Personalized Recommendations
  - Hp 20s Scientific Calculator User Manual User Reviews and Ratings

- Hp 20s Scientific Calculator User Manual and Bestseller Lists
- 5. Accessing Hp 20s Scientific Calculator User Manual Free and Paid eBooks
  - Hp 20s Scientific Calculator User Manual Public Domain eBooks
  - Hp 20s Scientific Calculator User Manual eBook Subscription Services
  - Hp 20s Scientific Calculator User Manual Budget-Friendly Options
- 6. Navigating Hp 20s Scientific Calculator User Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - Hp 20s Scientific Calculator User Manual Compatibility with Devices
  - Hp 20s Scientific Calculator User Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hp 20s Scientific Calculator User Manual
  - Highlighting and Note-Taking Hp 20s Scientific Calculator User Manual
  - Interactive Elements Hp 20s Scientific Calculator User Manual
- 8. Staying Engaged with Hp 20s Scientific Calculator User Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hp 20s Scientific Calculator User Manual
- 9. Balancing eBooks and Physical Books Hp 20s Scientific Calculator User Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Hp 20s Scientific Calculator User Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hp 20s Scientific Calculator User Manual
  - Setting Reading Goals Hp 20s Scientific Calculator User Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hp 20s Scientific Calculator User Manual
  - o Fact-Checking eBook Content of Hp 20s Scientific Calculator User 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

# **Hp 20s Scientific Calculator User Manual Introduction**

In the digital age, access to information has become easier than ever before. The ability to download Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual has opened up a world of possibilities. Downloading Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual. 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 Hp 20s Scientific Calculator User Manual. 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 Hp 20s Scientific Calculator User Manual, 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual Books

What is a Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual 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 Hp 20s Scientific Calculator User Manual:

jntua digital communication lab manual john deere 64service manual

john deere 210le service manual

jntu btech first year engineering drawing material

john constantine hellblazer vol bloodlines

john deere 3203 service manual

john bean tire machine parts manual

john deere 2305 service manual

john deere 1750 tractor manual

john bevere a recompensa da honra

job description for customer service lead

john deere 400 series transmission repair manual

john deere 55 series manual

john deere 3050 manual

john deere 224 baler operators manual

#### **Hp 20s Scientific Calculator User Manual:**

# introducción a la cartografía geológica liburuaren 5 edizioa - Dec 16 2022

web jan 29 2021 descarga introducción a la cartografía geológica 5ª ed revisada y ampliada manuales universitarios unibertsitateko eskuliburuak de luis miguel martínez

# introducción a la cartografía geológica manuales - Feb 18 2023

web sep 26 2018 upv ehu introducción a la cartografía geológica liburua upv ehuko hiru belaunaldiko irakasleek marraztu eta idatzi dute eta bosgarren ediziora iritsi da 1993an

## introduccion a la cartografia geologica manuales - Jul 11 2022

web oct 7 2023 present introduccion a la cartografia geologica manuales and numerous book collections from fictions to scientific research in any way among them is this

## introduccion a la cartografia geologica manuales 2023 - Apr 08 2022

web introduccion a la cartografia geologica manuales 1 5 downloaded from uniport edu ng on october 4 2023 by guest introduccion a la cartografia geologica manuales as

## introduccion a la cartografia geologica librería - Sep 13 2022

web habitualmente en relación con los proyectos y la ejecución de obras de ingeniería y edificación el texto ofrece una perspectiva esencialmente docente que forma parte de

introduccion a la cartografia geologica manuales uniport edu - Feb 06 2022

web oct 10 2023 introduccion a la cartografia geologica manuales 2 5 downloaded from uniport edu ng on october 10 2023 by guest y los pasos a seguir para la correcta

# introduccion a la cartografia geologica manuales copy - May 09 2022

web feb 16 2021 introduccion a la cartografía geologica contenido introducción a la cartografía geológica este libro combina los textos teóricos y los ejercicios prácticos

## introduccion a la cartografia geologica geologia eus upv ehu - Aug 24 2023

web sep 27 2018 introducción a la cartografía geológica este libro combina los textos teóricos y los ejercicios prácticos plasmados en un mapa geológico parte de maguetas

introduccion a la cartografia geologica manuales uniport edu - Dec 04 2021

## introduccion a la cartografia geologica pdf falla - Apr 20 2023

web introducción a la cartografía geológica by martínez torres luis miguel ramón lluch rafael apraiz atutxa arturo isbn 10 849082861x isbn 13 9788490828618

introducción a la cartografía geológica  $5^{\underline{a}}$  ed revisada y - Sep 25 2023

web introducción a la cartografía geológica  $5^{\underline{a}}$  ed revisada y ampliada manuales universitarios unibertsitateko eskuliburuak martínez torres luis miguel ramón

introduccion a la cartografia geologica manuales dotnbm - Jun 10 2022

web introduccion a la cartografia geologica manuales as one of the most vigorous sellers here will unquestionably be along with the best options to review geological maps an

gratis introducción a la cartografía geológica  $5^{\underline{a}}$  ed blogger - Mar 07 2022

web primero estudia las unidades de medida y las razones trigonométricas más empleadas en trabajos de topografía el sistema de planos acotados para representar mapas o planos

## introduccion a la cartografia geologica 4 ed pdf scribd - Jul 23 2023

web información del libro introducción a la cartografía geológica autores arturo apraiz atucha rafael ramón lluch luis miguel martínez torres editores bilbao introduccion a

introduccion a la cartografia geologica - Jan 17 2023

web espanolse efectua un analisis conceptual metodologico y bibliografico sobre el campo de accion cientifica de la geografia fisica y de su estrecha union con la ecologia y el medio

descarga introducción a la cartografía geológica 5ª ed blogger - Oct 14 2022

web mar 16 2021 libro introducción a la cartografía geológica 5ª ed revisada y ampliada manuales universitarios unibertsitateko eskuliburuak de luis miguel martínez

# introducción a la cartografía geológica volume 2 google books - May 21 2023

web introducción a la cartografía geológica volume 2 volume 1 of prácticas de geología authors r ramón lluch l m martínez torres arturo apraiz atutxa publisher

# introducción a la cartografía geológica softcover abebooks - Mar 19 2023

web textos teóricos y ejercicios prácticos plasmados en un mapa geológico se parte de maquetas recortables para después relacionar elementos cartográficos básicos con la

introduccion a la cartografia geologica manuales uniport edu - Jan 05 2022

introducción a la cartografía geológica 5ª ed revisada y - Jun 22 2023

web introducción a la cartografía geológica 5ª ed revisada y ampliada manuales universitarios unibertsitateko eskuliburuak martínez torres luis miguel ramón

<u>libro introducción a la cartografía geológica 5ª ed blogger</u> - Aug 12 2022

web revista de la asociación geológica argentina introduccion a la cartografia geologica manuales downloaded from dotnbm com by guest yareli trujillo mapas de

introducción a la cartografía geológica semantic scholar - Nov 15 2022

web jun 25 2018 comprar el libro introducción a la cartografía geológica de l m martínez torres universidad del país vasco servicio editorial euskal herriko unibertsitatea

## download free engineering studies n6 april 2020 exam papers - Mar 29 2022

web aug 27 2020 communication electronics n6 question paper april 2020 control systems n6 question paper april 2020

electrotechnics n6 question paper april 2020 loss control n6

report 191 programmes syllabus - Feb 25 2022

web mechanotechnics n6 subject code 8190236 implementation january 2021 contents general aims specific aims pre requisite duration evaluation learning

# mechanotechnics n6 qp apr 2020 pdf course hero - Dec 26 2021

web view mechanotechnics n6 qp apr 2020 pdf from informatio disd 2 at varsity college website previouspapers co za email info previouspapers co za cell

mechanotechnics n6 past papers study guides and notes - May 11 2023

web may 30 2022 find mechanotechnics n6 previous exam question papers with memorandums for answers 2022 2021 2020 2019 and more prescribed textbooks

mechanotechnics n6 memo aug 2020 pdf course hero - Jan 07 2023

web view t1120 mechanotechnics n6 memo aug 2020 pdf from draw b4 at elangeni fet college e durban marking guideline national certificate

mechanotechnics n6 pearson - Apr 29 2022

web key features of mechanotechnics n6 learning outcomes are clearly stated at the beginning of each learning unit to maintain focused learning wide range of activities

## n6 mechanotechnics past papers memorandums n6 nated - Aug 14 2023

web jun 2 2023 n6 mechanotechnics february 2022 memorandum pdf 317 5 kb n6 mechanotechnics august 2022 question paper pdf 314 9 kb n6 mechanotechnics

mechanotechnology past exam papers and memos mytvet - Mar 09 2023

web mechanotechnology n3 past exam papers and memos from the year 2015 to the latest paper n3 2023 new mechanotechnology n3 2022 mechanotechnology n3 2021

#### **n6 mechanotechnics vhembe tvet college** - Nov 05 2022

web n6 mechanotechnics april 2016 memorandum n6 mechanotechnics april 2016 n6 mechanotechnics november 2016 memorandum n6 mechanotechnics november

#### past exam papers memos for engineering - May 31 2022

web past exam papers memos for engineering studies n1 n6 thank you for downloading the past exam paper we hope it will be of help to

n6 mechanotechnics pdf acceleration torque scribd - Jan 27 2022

web mechanotechnics n6 subject code 8190236 implementation january 2021 f syllabus mechanotechnics n6 contents page 1

general aims 3 2 specific aims

## n6 mechanotechnics april 2016 memorandum - Feb 08 2023

web mechanotechnics n6 7 april 2016 this marking guideline consists of 8 pages 6 3 6 3 1 8 16 96 0 09p p 5 2 10 17 total 100 home engineering n1 n6 past papers and memos - Apr 10 2023

web home engineering n1 n6 past papers and memos

## mechanotechnics tvet exam papers - Jun 12 2023

web download mechanotechnics past exam papers and memos from 2005 to 2020 mechanotechnics n4 qp memo august qp memo november qp memo

free mechanotechnics n6 question memo - Oct 04 2022

web view free mechanotechnics n6 question memo download pdf from engineerin 3065 at george brown college canada website

### 6 sınıf İngilizce konuları ve müfredatı 2023 2024 meb - Oct 24 2021

web sınıf İngilizce konuları ve müfredatı 2023 2024 meb anasayfa 6 sınıf konuları 6 sınıf İngilizce konuları ve ünitelere göre dağılımları meb milli eğitim bakanlığı in

mechanotechnics past exam papers and memos mytvet - Jul 13 2023

web mechanotechnics n4 n6 past exam papers and memos from the year 2015 to the latest paper n4 n5 n6 2023 new mechanotechnics n4 2022 mechanotechnics n4 2021

# mechanotechnics n6 module 6 siyabongam - Aug 02 2022

web jul 22 2021 mechanotechnics n6 module 6 siyabongam published on july 22 2021

past exam papers memos for engineering - Sep 03 2022

web 8190236 6 april 2020 x paper 09 00 12 00 this question paper consists of 6 pages and a formula sheet of 2 pages 112q1a2006 department of higher education

# mechanotechnics n6 previous question papers and - Jul~01~2022

web mechanotechnics n6 previous question papers and memorandum 1 mechanotechnics n6 previous question papers and memorandum mechanotechnics n6 previous

n6 question papers and memorandums with study guides pdf -  ${\rm Dec}~06~2022$ 

web home jobs connection on this page you will find n6 past papers and study resources for all subjects notes study guides textbooks previous question papers and memos for

### mechanotechnics n6 previous question papers and - Sep 22 2021

web mechanotechnics n6 memo nov 2019 1 file s 466 08 kb download mechanotechnics n6 qp aug 2019 1 file s 532 72 kb

## 7 6 ınıf en bilimleri meb Ölcme değerlendirme ve sınav - Nov 24 2021

web evap anahtarına ulaşmak için karekodu okutunuz meb 201 201 Ölçme değerlendirme ve sınav hizmetleri genel müdürlüğü 6 ınıf

#### teacher toolkit topic the physics classroom - Mar 03 2022

web parallel circuits objectives 1 to recognize a parallel circuit to distinguish it from a series circuit and to construct and or interpret a schematic diagram of a parallel circuit 2 to compare the values of current and electric potential at various locations inside and

#### phet simulations series and parallel circuits answers - Feb 02 2022

web it will not waste your time put up with me the e book will extremely spread you further business to read just invest little period to admittance this on line statement phet simulations series and parallel circuits answers as skillfully as review them wherever you are now physics for scientists and engineers volume 2 raymond a serway

phet combined series and parallel key course hero - Feb 14 2023

web combined series and parallel lab instructions construct each of the circuits below using the phet circuit simulation each light bulb resistor is  $10~\Omega$  by default the battery has a potential difference of 9~v by default complete the rvip charts mathematically and check your answers with the non contact ammeter and voltmeter then

## virtual lab series circuit phet interactive simulations - Jan 01 2022

web explain basic electricity relationships in series and parallel circuits use an ammeter and voltmeter to take readings in circuits provide reasoning to explain the measurements and relationships in circuits build circuits from schematic drawings determine if common objects are conductors or insulators

# circuit phet lab answers answers for 2023 exams - Jul 19 2023

web lab 6 combination of series and parallel circuits using ph studocu circuit 3 2 lab 6 combination of series and parallel circuit using phet simulation tool objective learn to build up a combination of series and parallel circuit with three resisters lab 6 combination of series and parallel circuit chegg com - Jul 07 2022

web learn to build up a combination of series and parallel circuit with three resisters 2 use phet interactive simulation tool circuit construction kit ac prototype to build the circuits and verify ohm s law theory combination of series and parallel circuit show transcribed image text expert answer transcribed image text

# series and parallel circuits basics phet answers - Apr 16 2023

web jul 26 2018 one of the best ways to understand series and parallel circuits is by using the free online simulation tool phet answers this interactive program takes users through a comprehensive introduction to the concepts of series and parallel circuits as well as creating and evaluating circuit designs

## series and parallel circuits basics phet answer key - Sep 09 2022

web aug 28 2021 series and parallel circuits basics phet answer key phet is a program designed to help students learn about electricity and electronics it includes a variety of interactive tools including a wiring diagram tool the wiring diagram tool can be used to draw and analyze series and parallel circuits

circuit construction kit dc virtual lab series circuit phet - May 05 2022

web series circuit parallel circuit ohm s law kirchoff s law description do you like circuit construction kit dc but want to use only in line ammeters this is the sim for you experiment with an electronics kit build circuits with solved series and parallel circuits open interactive - Jun 06 2022

web question series and parallel circuits open interactive simulation construction kit dc phet colorado edu sims html circuit construction kit dc latest circuit construction kit dc en html a construct a circuit containing 5 12 10 12 15 12 resistors in series as shown below

### simple series and parallel circuit comparison phet contribution - Jun 18 2023

web dec 10 2020 founded in 2002 by nobel laureate carl wieman the phet interactive simulations project at the university of colorado boulder creates free interactive math and science simulations phet sims are based on extensive education a 0 research a and engage students through an intuitive game like environment where students learn solved series and parallel circuits simulation open the phet cheaq - Dec 12 2022

web question series and parallel circuits simulation open the phet simulation circuit construction kit 1 cells drag out three individual cells measure the voltage across each one individually and record the value then connect the cells in series to make a battery and record the values

## series circuit parallel circuit phet interactive simulations - Aug 20 2023

web explore basic electricity relationships explain basic electricity relationships in series and parallel circuits use an ammeter and voltmeter to take readings in circuits provide reasoning to explain the measurements and relationships in circuits build circuits from schematic drawings determine if common objects are conductors or insulators building series parallel circuits with phet simulations - May 17 2023

web jan 21 2021 this video shows you how to build and investigate series and parallel circuits with the circuit construction kit dc html 5 simulation from phet interactive simulations check all series and parallel circuits basics phet answer key - Oct 10 2022

web apr 19 2021 in conclusion the phet answer key is an invaluable tool for anyone trying to understand the basics of series and parallel circuits it provides a wealth of information about the behavior of different arrangements of components and allows users to quickly and easily diagnose any problems that may arise with the help of a phet answer key

## lab 6 combination of series and parallel circuits using ph et - Apr 04 2022

web lab 6 combination of series and parallel circuit using phet simulation tool objective 1 learn to build up a combination of series and parallel circuit with three resisters 2 use phet interactive simulation tool circuit construction kit ac prototype to build the circuits and verify ohm s law theory combination of series and parallel circuit series and parallel circuits phet lab answers answers for - Jan 13 2023

web phet simulations circuits answer key pdf free download at this point this pdf book provide series and parallel circuits basics phet answers guide to download free phet interactive simulations circuit

## series parallel circuits phet lab doc course hero - Aug 08 2022

web phet simulation series circuits parallel circuits part i series circuits problem what are the electric potential and current relationships in series circuits procedure 1 set up the series circuit shown in the diagram

series and parallel circuits phet contribution - Mar 15 2023

web feb 15 2010 series and parallel circuits description this is a good review of concepts pertaining to current and voltage in series and parallel circuits yet an introduction to power in circuits subject physics level high school type lab duration 30 minutes answers included no language english

electric circuits simulation physics tutor online - Nov 11 2022

web electric circuits simulation phet activity discover how series and parallel circuits work the aim of this activity is to use the electric circuits simulation above by phet to investigate the properties of circuits and to discover some circuit rules that always apply to circuits 12 set up the circuit as shown in figure 3 use an