

Name _____

Chapter 4 Test/Review

Lesson 4.1–4.4

Complete the pattern.

$$\begin{aligned}
 1. \quad & 5.07 \times 1 = \\
 & 5.07 \times 10 = \\
 & 5.07 \times 100 = \\
 & 5.07 \times 1,000 =
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & 1 \times 50 = \\
 & 0.1 \times 50 = \\
 & 0.01 \times 50 =
 \end{aligned}$$

$$\begin{aligned}
 3. \quad & 10^0 \times 0.25 = \\
 & 10^1 \times 0.25 = \\
 & 10^2 \times 0.25 = \\
 & 10^3 \times 0.25 =
 \end{aligned}$$

Find the product. Draw a quick picture.

4. $5 \times 0.5 =$

5. $6 \times 0.25 =$

6. $2 \times 0.24 =$

Find the product.

7.
$$\begin{array}{r} 45 \\ \times 9 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 372 \\ \times 9 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 25.25 \\ \times 3 \\ \hline \end{array}$$

Complete the model and find the product.

10. $18 \times 0.95 =$

	0.9	0.05
10		
8		

11. $36 \times 0.27 =$

	0.2	0.07
30		
6		

Go Math Chapter 4 Test

Clemens Wendtner



Go Math Chapter 4 Test:

If you ally compulsion such a referred **Go Math Chapter 4 Test** book that will offer you worth, get the no question best seller from us currently from several preferred authors. If you want to witty books, lots of novels, tale, jokes, and more fictions collections are moreover launched, from best seller to one of the most current released.

You may not be perplexed to enjoy every book collections Go Math Chapter 4 Test that we will unconditionally offer. It is not approaching the costs. Its roughly what you craving currently. This Go Math Chapter 4 Test, as one of the most in force sellers here will definitely be along with the best options to review.

https://py.bijouxmedusa.com/results/detail/Documents/How_To_Close_Every_Sale.pdf

Table of Contents Go Math Chapter 4 Test

1. Understanding the eBook Go Math Chapter 4 Test
 - The Rise of Digital Reading Go Math Chapter 4 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Go Math Chapter 4 Test
 - 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 Go Math Chapter 4 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Go Math Chapter 4 Test
 - Personalized Recommendations
 - Go Math Chapter 4 Test User Reviews and Ratings
 - Go Math Chapter 4 Test and Bestseller Lists
5. Accessing Go Math Chapter 4 Test Free and Paid eBooks

- Go Math Chapter 4 Test Public Domain eBooks
 - Go Math Chapter 4 Test eBook Subscription Services
 - Go Math Chapter 4 Test Budget-Friendly Options
6. Navigating Go Math Chapter 4 Test eBook Formats
- ePub, PDF, MOBI, and More
 - Go Math Chapter 4 Test Compatibility with Devices
 - Go Math Chapter 4 Test Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Go Math Chapter 4 Test
 - Highlighting and Note-Taking Go Math Chapter 4 Test
 - Interactive Elements Go Math Chapter 4 Test
8. Staying Engaged with Go Math Chapter 4 Test
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Go Math Chapter 4 Test
9. Balancing eBooks and Physical Books Go Math Chapter 4 Test
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Go Math Chapter 4 Test
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Go Math Chapter 4 Test
- Setting Reading Goals Go Math Chapter 4 Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Go Math Chapter 4 Test
- Fact-Checking eBook Content of Go Math Chapter 4 Test
 - 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

Go Math Chapter 4 Test 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 Go Math Chapter 4 Test 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 Go Math Chapter 4 Test 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 Go Math Chapter 4 Test 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 it's essential to be cautious and verify the authenticity of the source before downloading Go Math Chapter 4 Test. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether it's 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 Go Math Chapter 4 Test any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Go Math Chapter 4 Test Books

What is a Go Math Chapter 4 Test 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 Go Math Chapter 4 Test 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 Go Math Chapter 4 Test 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 Go Math Chapter 4 Test PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobat's 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 Go Math Chapter 4 Test 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 Go Math Chapter 4 Test :

how to close every sale

iit jee notes

hopes and prospects noam chomsky

[hsc chemistry notes industrial chemistry](#)

[human anatomy and physiology 8th edition marieb download](#)

[hydrology and floodplain analysis 4th edition pdf](#)

[hospitality facilities management and design 3rd edition ebook](#)

ib english b hl past papers 2014 bing uncpbisdegree

hyundai hl770 7 wheel loader workshop repair service manual complete informative for diy repair 9734 9734 9734 9734 9734

how to write a novel using the snowflake method advanced fiction writing volume 1

hyundai accent service

[ichimoku charts by ken muranaka full online](#)

[homework for unit 5 1 force and motion sfu](#)

[ib spanish sl paper 1 mark scheme](#)

hsc board question papers science 2008

Go Math Chapter 4 Test :

richard scarry s best treasury ever google books - Feb 17 2023

web a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another fun filled day in richard scarry s busytown pay a visit to lowly worm and all your favourite characters in this fabulous collection of scarry s best loved stories

[richard scarry s best treasury ever whitcoulls](#) - May 08 2022

web article 6322515 isbn 9780008253264 richard scarry hardback 39 99 it s another fun filled day in richard scarry s

busytown pay a visit to lowly worm and all your favourite characters in this fabulous collection of scarry s best loved stories limited stock ships in 3 7 working days

[richard scarry s best storybook ever barnes noble](#) - Jan 04 2022

web jun 8 2000 product details about the author richard scarry is one of the world s best loved children s authors ever generations of children all over the world have grown up spending hours poring over his books filled with all the colorful details of their daily lives

richard scarry s best treasury ever by scarry richard scarry richard - Oct 13 2022

web buy richard scarry s best treasury ever by scarry richard scarry richard online on amazon ae at best prices fast and free shipping free returns cash on delivery available on eligible purchase

richard scarry s best treasury ever - Jun 21 2023

web richard scarry s best treasury ever by richard scarry illustrated by richard scarry buy now a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another

richard scarry s best treasury ever harry hartog - Jun 09 2022

web nov 16 2017 it s another fun filled day in richard scarry s busytown pay a visit to lowly worm and all your favourite characters in this fabulous collection of scarry s best loved stories packed full of cars and trucks planes and trains houses shops and busy streets it will keep curious minds occupied for hours on end

richard scarry s best treasury ever lovereading4kids - Jan 16 2023

web press reviews author lovereading4kids says a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old richard scarry s distinctive busy scenes and characters have been delighting children for generations and they look as fresh and appealing as ever in this handsome treasury

richard scarry s best treasury ever hardcover amazon co uk - May 20 2023

web richard scarry s best treasury ever hardcover picture book 16 nov 2017 a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another fun filled day in richard scarry s busytown

richard scarry s best treasury ever amazon com - Aug 23 2023

web richard scarry s best treasury ever hardcover by richard scarry author 4 7 62 ratings see all formats and editions hardcover 47 19 3 used from 38 30 6 new from 42 73 a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old

[richard scarry s best treasury ever hardback waterstones](#) - Mar 18 2023

web nov 16 2017 click collect synopsis a stunning hardback treasury of five of richard scarry s best loved stories the perfect

gift for scarry fans young and old it s another fun filled day in richard scarry s busytown

richard scarry s best treasury ever harpercollins australia - Dec 15 2022

web a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another fun filled day in richard scarry s busytown pay a visit to lowly worm and all your favourite characters in this fabulous collection of scarry s best loved stories

richard scarry s best storybook ever penguin random house - Sep 12 2022

web about richard scarry s best storybook ever a treasury of classic books from the one and only richard scarry featuring over 80 richard scarry classics this treasury is nearly 300 pages of fun adventure and discovery

richard scarry s best treasury ever by richard scarry goodreads - Jul 22 2023

web jan 22 2018 4 50 8 ratings0 reviews a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another fun filled day in richard scarry s busytown

richard scarry s best treasury ever harpercollins publishers uk - Apr 19 2023

web a stunning hardback treasury of five of richard scarry s best loved stories the perfect gift for scarry fans young and old it s another fun filled day in richard scarry s busytown pay a visit to lowly worm and all your favourite characters in this fabulous collection of scarry s best loved sto

richard scarry s best treasury ever by richard scarry - Mar 06 2022

web nov 16 2017 richard scarry s best treasury ever by richard scarry from ryefield books fast shipping and free uk delivery on orders over 25 up to 10 off on multibuy discount applied at checkout

richard scarry s best treasury ever amazon in - Nov 14 2022

web buy richard scarry s best treasury ever book online at low prices in india richard scarry s best treasury ever reviews ratings amazon in books children s young adult literature fiction buy new 650 00 m r p 999 00 save 349 00 35 inclusive of all taxes free delivery tue 4 oct details or fastest delivery today

richard scarry s best treasury ever the book tree - Feb 05 2022

web sweet progress for more on the update check this out give away to win a copy of this bumper packed classic enter here or send us an email with the subject richard scarry giveaway and tell us who will be reading best treasury ever should you win it good luck

loading interface goodreads - Apr 07 2022

web discover and share books you love on goodreads

richard scarry s best storybook ever goodreads - Aug 11 2022

web 8 311 ratings160 reviews a treasury of classic books from the one and only richard scarry featuring over 80 richard

scarry classics this treasury is nearly 300 pages of fun adventure and discovery

richard scarry wikipedia - Jul 10 2022

web he is best known for his best ever book series that take place primarily in the fictional town of busytown which is populated by friendly and helpful resident animals such as mr frumble huckle cat mr fixit lowly worm and others 2 the series spawned a media franchise early life and education

basement retaining wall design by civil smart - May 01 2022

web feb 15 2022 basement retaining wall design by civil smart civil smart 1 73k subscribers subscribe 2 7k views 1 year ago wall design sheets also watch videos below 1 counterfort retaining

basement wall design example using asdip retain linkedin - Feb 27 2022

web feb 21 2018 as an example let s consider a basement wall in a building which is a restrained retaining wall with a level backfill subject to the traffic surcharge load shown apply a vertical

basement wall design slideshare - Apr 12 2023

web jan 7 2020 basement wall design 1 civil engineering training center bim cetc rc design prepared by mr seng phearak m eng s e page 243 section 18 basement retaining wall design 1 determine the thickness and necessary reinforcement for the basement retaining wall shown in figure below

basement wall design spreadsheet the engineering community - Jul 03 2022

web sep 13 2020 basement wall design to bs8110 1997 bs8002 1994 bs 8004 1986 etc a basement wall is thus one kind of retaining wall but the term usually refers to a cantilever retaining wall which is a freestanding structure without lateral support at its top

worked example 2 design of concrete cantilever retaining walls - Dec 08 2022

web worked example to accompany mbie guidance on the seismic design of retaining structures for residential sites in greater christchurch version 2 november 2014 introduction cantilever concrete retaining walls are commonly used for residential purposes often as integral basement walls

retaining wall design example structural engineering software - Mar 31 2022

web ce 437 537 spring 2011 retaining wall design example 1 8 design a reinforced concrete retaining wall for the following conditions f c 3000 psi fy 60 ksi natural soil development of structural design equations in this example the structural design of the three retaining wall components is performed by hand two equations are developed

worked example retaining wall design the structural world - May 13 2023

web mar 4 2019 we have learned the different checks against the mode of failures in the retaining wall should be considered in the design to further understand the designed approach here is a worked example of the design of the

retaining wall

designing concrete structures american concrete institute - Jun 14 2023

web example problem buried concrete basement wall design problem statement provide a detailed strength design durability and other considerations not included for a new buried concrete basement wall in a single story masonry building using the given information given information see figure 1 for general layout and dimensions of wall section

design and detailing of retaining walls - Oct 06 2022

web types of gravity retaining walls classification of retaining walls following are the different types of retaining walls which is based on the shape and the mode of resisting the pressure gravity wall masonry or plain concrete cantilever retaining wall rcc inverted t and l counterfort retaining wall rcc buttress wall rcc backfill backfill

handout b retaining walls assakkaf - Sep 05 2022

web design considerations for basement walls handoutb retaining walls slide no 23 ence 454 assakkaf when a part of the basement wall is above ground the lateral bending moment may be small and may be computed as shown in figure 8 this assumes that the wall is spanning in a vertical direction depending on the type of construction the

handout a retaining walls assakkaf - Dec 28 2021

web lateral forces on retaining wallsence 454 assakkaf design of retaining walls the design of retaining wall must account for all applied loads the load that presents the greatest problem and its primary concern is the lateral earth pressure induced by the retained soil the comprehensive earth pressure theories

basement wall design example using asdip retain - Nov 07 2022

web feb 21 2018 as an example let s consider a basement wall in a building which is a restrained retaining wall with a level backfill subject to the traffic surcharge load shown apply a vertical concentrated load on top of the stem

design of basement wall civil construction - Aug 04 2022

web aug 8 2020 example design a basement wall of a building having basement height 3 2 m the unit weight and angle of internal friction of soil present in that area is found to be 18kn m³ and 30° respectively the surcharge produced due to vehicular movement is given by 10 kn m² provided grade of concrete m30 and grade of steel 500d

excel sheet basement wall design spreadsheet - Jun 02 2022

web feb 3 2020 this excel sheet to design concrete basement wall details strength design durability and other considerations not included for a new buried concrete basement wall in a single story masonry building the example follows the provisions of aci 318 11 building code requirements for structural concrete throughout the example

design of retaining walls structville - Jan 09 2023

web may 9 2018 in the design of civil engineering structures retaining walls are normally used to retain soil earth materials

and possible hydrostatic pressure and they are usually found on embankments highways basements of buildings etc this publication presents an example of the design of cantilever retaining walls

basement retaining wall structural design overview linkedin - Mar 11 2023

web oct 9 2020 driveways parking lots equipment etc are examples of surcharges in a basement wall a uniform surcharge will produce a uniform lateral pressure on the wall a roadway running parallel to

design of basement site retaining walls la - Jan 29 2022

web design of basement site retaining walls issue building code section 1805 5 requires foundation walls to be designed in accordance with chapters 19 or 21 for concrete or masonry respectively section 1610 1 requires retaining walls to be designed to resist the soil loads in table 1610 1 unless otherwise specified by a soils investigation

basement retaining wall structural design overview youtube - Jul 15 2023

web oct 7 2020 the design of restrained retaining walls may be time consuming particularly for two story retaining walls but how do you design a basement retaining wall

basement retaining wall structural design overview - Aug 16 2023

web oct 7 2020 for software usage please read the blog post how to design basement retaining wall using asdip retain for a footing design example please see the blog post basement wall design example using asdip retain for our collection of blog posts about retaining walls please visit structural retaining wall design

basics of retaining wall design - Feb 10 2023

web retaining walls restrained basement walls gravity walls and segmental retaining walls both gravity and with geogrids other topics include sheet pile walls tilt up retaining walls soldier pile walls gabion

information technology compulsory questions cxc pdf - Oct 10 2022

information technology compulsory questions cxc author ferdinand semmler from home rightster com subject information technology compulsory questions cxc

information technology compulsory questions cxc pdf - May 05 2022

offer information technology compulsory questions cxc and numerous books collections from fictions to scientific research in any way in the middle of them is this information

information technology csec caribbean examinations council - Mar 15 2023

cxc 30 g syll 17 2 aims the syllabus aims to 1 prepare students to function effectively in a dynamic technological era 2 promote the development of computer related skills for

information technology compulsory questions cxc - Oct 30 2021

cxc csec information technology multiple choice - Apr 16 2023

information technology compulsory questions cxc cxc 34 g syll 12 1 electronic document preparation and management syllabus rationale computerisation has

information technology cxc practice test questions - Aug 20 2023

section 1 database management information technology caribbean cxc multiple choice questions hundreds of cxc information technology exam questions for cxc passing

information technology compulsory questions cxc pdf ws - Aug 08 2022

costs its very nearly what you dependence currently this information technology compulsory questions cxc as one of the most working sellers here will unconditionally be

csec information technology 146 plays quizizz - Nov 30 2021

information technology compulsory questions cxc 2023 - Apr 04 2022

yeah reviewing a ebook information technology compulsory questions cxc could accumulate your close connections listings this is just one of the solutions for you to be

information technology compulsory questions cxc - Feb 14 2023

covering the 50 of syllabus as per latest term wise pattern 2021 22 this book consists of 1 complete theory in each chapter covering all topics 2 case based short and long answer

information technology exam guide unit 4 applications and - May 17 2023

the syllabus aims to expose candidates to a wide range of information and communication technologies affording learning experiences which include an element of discovery and

information technology syllabus caribbean - Sep 21 2023

pa p e r 0 2 twelve compulsory structured questions drawn from all areas of the syllabus divided 2 hours 15 minutes into three sections section 1 is worth 60 marks and consists of

syllabus information technology cypher learning - Jan 13 2023

information technology compulsory questions cxc oswaal cbse sample question papers accountancy english core business studies economics class 11 set of 4 books for

information technology compulsory questions cxc - Mar 03 2022

coding 49 7k plays 5th 8th 16 qs computer 47 8k plays 2nd csec information technology quiz for 10th grade students find other quizzes for other and more on quizizz

information technology for csec cxc study guide - Dec 12 2022

jun 13 2023 challenging solely expressed the information technology compulsory questions cxc is widely compatible with any devices to download you could speedily

[information technology compulsory questions cxc 2022 api](#) - Jun 06 2022

inform before if you companion way such a referred information technology compulsory questions cxc books that will find the money for you worth receive the

[information technology compulsory questions cxc pdf](#) - Nov 11 2022

2 information technology compulsory questions cxc 2020 05 17 primary and secondary education and community based environmental education the book also discusses topics on

[information technology cxc paper 1 practice questions](#) - Jun 18 2023

cxc csec exam guide information technology revised may june 2010 information technology exam guide unit 4 applications and implications of information and

[cxc csec exam guide information technology](#) - Jul 19 2023

twelve compulsory structured questions drawn from all areas of the syllabus divided into three sections section 1 is worth 60 marks and consists of six 6 short answer questions section

information technology compulsory questions cxc - Sep 09 2022

information technology compulsory questions cxc 3 3 simon schuster books for young readers this text examines the mindtool concept alternative ways of using computer

[information technology compulsory questions cxc](#) - Feb 02 2022

jun 12 2023 information technology compulsory questions cxc is furthermore beneficial information technology compulsory questions cxc is obtainable in our text accumulation

information technology compulsory questions cxc - Jul 07 2022

mar 19 2023 information technology compulsory questions cxc can be taken as well as picked to act open educational resources policy costs transformation miao fengchun

information technology compulsory questions cxc - Jan 01 2022