



education

Department of
Education
FREE STATE PROVINCE

PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



TABLE OF CONTENTS



HOW TO USE THIS DOCUMENT	2
TERMS AND DEFINITIONS	3
QUESTIONS	9
ORGANIC MOLECULES: NOMENCLATURE	9
ORGANIC MOLECULES: PHYSICAL PROPERTIES	17
ORGANIC MOLECULES: ORGANIC REACTIONS	24
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	31
CHEMICAL EQUILIBRIUM	42
ACIDS AND BASES	49
GALVANIC CELLS	56
ELECTROLYTIC CELLS	63
ANSWERS TO QUESTIONS	68
ORGANIC MOLECULES: NOMENCLATURE	68
ORGANIC MOLECULES: PHYSICAL PROPERTIES	74
ORGANIC MOLECULES: ORGANIC REACTIONS	80
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	86
CHEMICAL EQUILIBRIUM	96
ACIDS AND BASES	107
GALVANIC CELLS	114
ELECTROLYTIC CELLS	117
BIBLIOGRAPHY	119



Physical Science Grade 1june Exam 2014

VM Jensen



Physical Science Grade 1june Exam 2014:

Whispering the Techniques of Language: An Psychological Journey through **Physical Science Grade 1june Exam 2014**

In a digitally-driven world where screens reign supreme and immediate conversation drowns out the subtleties of language, the profound secrets and mental nuances hidden within words frequently get unheard. However, located within the pages of **Physical Science Grade 1june Exam 2014** a fascinating literary value pulsating with raw feelings, lies an exceptional quest waiting to be undertaken. Penned by a talented wordsmith, this charming opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of each word. Within the emotional depths of the poignant evaluation, we can embark upon a heartfelt exploration of the book is primary subjects, dissect its interesting publishing model, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

https://crm.avenza.com/book/browse/index.jsp/pc_training_forms_2016.pdf

Table of Contents Physical Science Grade 1june Exam 2014

1. Understanding the eBook Physical Science Grade 1june Exam 2014
 - The Rise of Digital Reading Physical Science Grade 1june Exam 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 1june Exam 2014
 - 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 Physical Science Grade 1june Exam 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 1june Exam 2014
 - Personalized Recommendations

- Physical Science Grade 1june Exam 2014 User Reviews and Ratings
- Physical Science Grade 1june Exam 2014 and Bestseller Lists
- 5. Accessing Physical Science Grade 1june Exam 2014 Free and Paid eBooks
 - Physical Science Grade 1june Exam 2014 Public Domain eBooks
 - Physical Science Grade 1june Exam 2014 eBook Subscription Services
 - Physical Science Grade 1june Exam 2014 Budget-Friendly Options
- 6. Navigating Physical Science Grade 1june Exam 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 1june Exam 2014 Compatibility with Devices
 - Physical Science Grade 1june Exam 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 1june Exam 2014
 - Highlighting and Note-Taking Physical Science Grade 1june Exam 2014
 - Interactive Elements Physical Science Grade 1june Exam 2014
- 8. Staying Engaged with Physical Science Grade 1june Exam 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 1june Exam 2014
- 9. Balancing eBooks and Physical Books Physical Science Grade 1june Exam 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 1june Exam 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Grade 1june Exam 2014
 - Setting Reading Goals Physical Science Grade 1june Exam 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Grade 1june Exam 2014
 - Fact-Checking eBook Content of Physical Science Grade 1june Exam 2014

- 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

Physical Science Grade 1june Exam 2014 Introduction

In the digital age, access to information has become easier than ever before. The ability to download Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 has opened up a world of possibilities. Downloading Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014. 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 Physical Science Grade 1june Exam 2014. 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 Physical Science Grade 1june Exam 2014, 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 Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 Books

1. Where can I buy Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 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 Physical Science Grade 1june Exam 2014 books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Physical Science Grade 1june Exam 2014 :

pc training forms 2016

pearson education biology solution key manual

[pearson earth science workbook grade 6](#)

peach pear pie recipe

[pearson education science answers vocabulary preview](#)

pearson 5 2 the modern periodic table study guide

pearson a history of asia 6th edition

[peanutbutter chicken skewer recipe](#)

[pearson homework math 2nd grade](#)

pearson biology cellular respiration study guide answers

pearson geometry chapters 9 cumulative review

peak performance buoyancy knowledge manual answers

pearson biology 1 science answer key

pearson energy review and reinforce answers

pearson chemistry standardized test prep answers

Physical Science Grade 1june Exam 2014 :

the myth of male power warren farrell google books - Sep 08 2023

web dec 17 2022 backed by a stunning array of facts the myth of male power shatters the singular assumption that most keeps men and women apart the belief that men have

browse editions for the myth of male power the storygraph - Apr 22 2022

web the myth of male power why men are the disposable sex warren farrell finch publishing 2001 men 408 pages other editions view all the myth of male

the myth of male power kindle edition amazon com au - Nov 29 2022

web the myth of male power audible audiobook abridged warren farrell author narrator dr warren farrell publisher 4 6 462 ratings see all formats and editions audiobook

the myth of male power wikipedia - Dec 31 2022

web the myth of male power english edition ebook farrell warren amazon de kindle store

the myth of male power kindle edition amazon com - Mar 02 2023

web the myth of male power is a captivating journey around the world throughout history biology the bible the law and everyday life challenging every currently held

the myth of male power 1994 edition open library - Feb 01 2023

web the myth of male power is a captivating journey around the world throughout history biology the bible the law and everyday life challenging every currently held

warren farrell the myth of male power ebook - Oct 29 2022

web the myth of male power english edition ebook farrell warren amazon nl kindle store

the myth of male power why men are the disposable - Oct 09 2023

web the myth of male power warren farrell berkley books 1996 men 512 pages bestselling author warren farrell offers a new non dogmatic approach to the relationship between

the myth of male power kindle edition amazon co uk - Apr 03 2023

web the myth of male power ebook 9 99 available in formats compatible with most e readers including ibooks kindle and now an audiobook on audible com the myth of

the myth of male power by warren farrell open library - Dec 19 2021

the myth of male power kindle edition amazon in - Aug 27 2022

web jan 1 2001 the myth of male power paperback 1 january 2001 by warren farrell author 4 5 351 ratings see all formats and editions kindle edition 0 00 this title and

editions of the myth of male power by warren farrell goodreads - Jul 06 2023

web aug 5 2021 dr warren farrell has embarked upon an extraordinary mission that concerns us all to bring the sexes back together backed by a stunning array of facts the myth

the myth of male power why men are the disposable sex - Nov 17 2021

the myth of male power edition open library - Feb 18 2022

the myth of male power english edition kindle edition - Jul 26 2022

web the myth of male power why men are the disposable sex by warren farrell 0 ratings 24 want to read 2 currently reading 0 have read

the myth of male power amazon com - Jun 24 2022

web oct 1 1996 myth of male power by warren farrell ph d october 1 1996 berkley edition in english

the myth of male power english edition kindle editie amazon nl - May 24 2022

web dec 17 2020 the myth of male power by warren farrell 2001 berkley books edition in english

the myth of male power october 1 1996 edition open library - Jan 20 2022

the myth of male power kindle edition amazon ca - Sep 27 2022

web browse editions add edition current edition the myth of male power warren farrell 448 pages first pub 1993 isbn uid none format not specified language english

the myth of male power by warren farrell open library - May 04 2023

web the myth of male power is a captivating journey around the world throughout history biology the bible the law and everyday life challenging every currently held

the myth of male power by warren farrell open library - Aug 07 2023

web editions for the myth of male power 0425181448 paperback published in 2001 kindle edition published in 2017 kindle edition published in 2014 06

the myth of male power by warren farrell goodreads - Jun 05 2023

web the myth of male power is a captivating journey around the world throughout history biology the bible the law and everyday life challenging every currently held

buy the myth of male power book online at low prices in india - Mar 22 2022

sibylle zeitschrift für mode und kultur 1956 1995 - Dec 21 2022

web sehen so unsere menschen aus sibylle und die modedotografie in der ddr ulrich ptak die namensgeberin porträt sibylle boden gerstner anja maier das private als prinzip frauenbild und making of der sibylle anja maier eine zeitschrift unter dem radar thomas winkler fotografinnen und fotografen chefredaktion und moderedaktion

sibylle die zeitschrift für mode und kultur mdr de - Jul 28 2023

web oct 6 2022 stand 06 oktober 2022 07 57 uhr von 1956 bis 1994 war die sibylle stilprägend für die modebewusste frau in ostdeutschland mit ihren künstlerisch anspruchsvollen fotos setzte die vogue

kunstgewerbemuseum sibylle skd - Nov 20 2022

web apr 28 2018 sibylle 1956 1995 zeitschrift für mode und kultur was heute die frauenzeitschrift brigitte ist das war in der ddr die sibylle zeitschrift für mode und kultur mit nur rund 200 000 exemplaren pro ausgabe es gab ab 1956 sechs pro jahr war die zeitschrift ein rares produkt und stets in kürzester zeit vergriffen

sibylle zeitschrift für mode und kultur hartmann books - Apr 25 2023

web beschreibung die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für die frau

sibylle ute mahler andreas krase isbn - Apr 13 2022

web vdomdhtmltml sibylle andreas krase softcover ean 9783960700074 isbn 3960700075 please scroll down for english version die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für die frau

sibylle zeitschrift für mode und kultur slub dresden - Feb 23 2023

web beschreibung die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für die frau die ob ihrer inhaltlichen qualität auch als ost vogue titulierte zeitschrift erschien sechsmal jährlich in einer zu ddr zeiten planwirtschaftlich reglementierten

sibylle zeitschrift für mode und kultur 1956 1995 - Jul 16 2022

web the volume sibylle zeitschrift für mode und kultur sibylle magazine for fashion and culture which is already out of print in the first edition presents the most important photographers and their work for sibylle in detailed photo spreads over the entire period of publication from 1956 to 1995 in addition the editorial and content

sibylle zeitschrift für mode und kultur digitales deutsches - Aug 29 2023

web nov 11 2021 november 2021 sibylle prägte ein einzigartiges ddr frauenbild ihr inhaltliches repertoire war beständig mode literatur kultur ratgeber mode und modedotografie machten sibylle zu einer gefragten zeitschrift die aus dem kanon der anderen ddr frauenzeitschriften herausstach

sibylle zeitschrift für mode und kultur bildband berlin - Feb 11 2022

web hartmann books 2017 sibylle was the most read magazine for fashion art and culture in the gdr named after the first editor in chief sibylle gerstner it was published six times a year in a limited print run of 200 000 copies due to the restrictions of the state directed economy in the socialist peoples republic

sibylle 1956 1995 zeitschrift für mode und kultur youtube - Sep 18 2022

web apr 11 2018 9 18k views 4 years ago was heute die frauenzeitschrift brigitte ist das war in der ddr die sibylle ab april 2018 zeigt die ausstellung sibylle 1956 1995 zeitschrift für mode und

sibylle zeitschrift für mode und kultur perlentaucher - May 26 2023

web die sibylle war die zeitschrift für mode und kultur der ddr die ob ihrer inhaltlichen qualität auch als ost vogue titulierte zeitschrift erschien sechsmal jährlich in einer zu ddr zeiten planwirtschaftlich reglementierten auflage von 200 000 exemplaren und war wegen grosser nachfrage regelmäßig schnell vergriffen

sibylle 1956 1995 zeitschrift für mode und kultur - Oct 19 2022

web 28 april bis 4 november 2018 ausstellung im schloss pillnitz wasserpalais was heute die frauenzeitschrift brigitte das war in der ddr die sibylle zeitschrift für mode und kultur mit nur rund 200 000 exemplaren pro ausgabe es gab ab 1956 sechs pro jahr war die zeitschrift ein rares produkt und stets in kürzester zeit vergriffen

sibylle zeitschrift wikipedia - Jun 27 2023

web sibylle zeitschrift für mode und kultur war eine frauenzeitschrift in der ddr herausgegeben vom modeinstitut berlin gründerin und namensgeberin war sibylle gerstner 1 erster chefredakteur war 1956 und 1957 rudolf nehring 2 chefredakteurinnen waren von 1958 bis 1968 margot pfannstiel und von 1968 bis 1983

sibylle zeitschrift für mode und kultur amazon de - Jun 15 2022

web dec 15 2017 sibylle zeitschrift für mode und kultur hardcover 15 dec 2017 please scroll down for english version die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für

sibylle zeitschrift für mode und kultur tv special 2001 imdb - Jan 10 2022

web sibylle zeitschrift für mode und kultur tv special 2001 55m your rating rate documentary for women in east germany sibylle was both an inspiration and an illusion artistically sophisticated photos by well known photographers such as roger melis günter rössler or sibylle bergmann adorned the pages

modezeitschrift sibylle die vogue der ddr ddr museum - Jan 22 2023

web mar 11 2022 die sibylle war die zeitschrift für mode und kultur in der ddr und stets schnell vergriffen der anspruch des blattes waren hochwertige modefotografien einzigartige schnitte inklusive schnittmuster und anspruchsvolle texte für modebewusste und kulturell interessierte menschen ein muss

sibylle zeitschrift für mode und kultur hartmann books - Mar 12 2022

web sibylle was the most read magazine for fashion art and culture in the gdr named after the first editor in chief sibylle gerstner it was published six

sibylle zeitschrift für mode und kultur gebundene ausgabe amazon de - Aug 17 2022

web sibylle zeitschrift für mode und kultur gebundene ausgabe 15 dezember 2017 please scroll down for english version die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für

sibylle 1956 1995 zeitschrift für mode und kultur - May 14 2022

web apr 28 2018 was heute die frauenzeitschrift brigitte ist das war in der ddr die sibylle zeitschrift für mode und kultur mit nur rund 200 000 exemplaren pro ausgabe es gab ab 1956 sechs pro jahr war die zeitschrift ein rares produkt und stets in kürzester zeit vergriffen insbesondere die fotografien sowie die herausragende grafik bildeten

sibylle zeitschrift für mode und kultur ostkreuzschule - Mar 24 2023

web dec 8 2016 die sibylle war die zeitschrift für mode und kultur der ddr herausgegeben zunächst vom modeinstitut berlin später vom verlag für die frau die ob ihrer inhaltlichen qualität auch als ost vogue titulierte zeitschrift erschien sechsmal jährlich in einer zu ddr zeiten planwirtschaftlich reglementierten auflage von 200 000

old windows made easy the simple way to restore w - Feb 25 2022

web jun 6 2022 pergi ke drive c dan buka folder windows old langkah 3 klik dua kali folder pengguna langkah 4 ketuk dua kali atau klik dua kali nama pengguna anda

cara mengembalikan windows old windows 11 10 easeus - Nov 24 2021

old windows made easy the simple way to restore wood - May 11 2023

web copy link download pdf bookcenterapp com 1505631424 old windows made easy the simple way to restore wood windows exploration can be

oldwindowsmadeeasythesimplewaytorestorew download - Jan 27 2022

web feb 20 2023 there are some working methods to restore files from windows old folder on windows 10 11 and we are going to discuss two effective and easy solutions

oldwindowsmadeeasythesimplewaytorestorew - Dec 26 2021

old windows made easy the simple way to restore wood - Dec 06 2022

web find helpful customer reviews and review ratings for old windows made easy the simple way to restore wood windows at

amazon com read honest and unbiased product

old windows made easy the simple way to restore wood - Jun 12 2023

web old windows made easy the simple way to restore wood windows sidler scott a amazon com tr kitap

a complete guide on how to restore windows old windows 10 - Aug 02 2022

web jan 27 2021 in short it is the best option to make windows old restore how to restore windows old folder step 1 scan entire disk to look for files in windows old get the

old windows made easy the simple way to restore wood - Nov 05 2022

web jan 13 2022 the easiest way to restore old windows is to tackle the project when you have minimal damage rotting or other paint and stain malfunctions meaning if you

how to restore windows old folder make windows old - May 31 2022

web apr 22 2023 merely said the old windows made easy the simple way to restore w is universally compatible with any devices to read natural ventilation for infection control

8 tips for restoring old windows angi - Sep 03 2022

web oct 18 2022 to recover individual files from your old windows installation you can use the following steps step 1 open file explorer in windows 10 step 2 access the

how to restore files from windows old on windows 10 11 - Oct 24 2021

restore files or windows from windows old folder in windows 10 - Jul 01 2022

web old windows made easy the simple way to restore w getting the books old windows made easy the simple way to restore w now is not type of challenging

old windows made easy the simple way to restore wood - Jan 07 2023

web buy old windows made easy the simple way to restore wood windows by online on amazon ae at best prices fast and free shipping free returns cash on delivery available

amazon com customer reviews old windows made easy the - Oct 04 2022

web dec 24 2021 one of the best ways for you to be able to restore windows old windows 10 files is by using a third party application and when it comes to recovering lost files

old windows made easy the simple way to restore - Jul 13 2023

web buy old windows made easy the simple way to restore wood windows by sidler scott a isbn 9781505631425 from amazon s book store everyday low prices and

old windows made easy the simple way to restore w james - Mar 29 2022

web traditional windows teachucomp inc old house journal is the original magazine devoted to restoring and preserving old houses for more than 35 years our mission has been

old windows in depth the complete window - Apr 29 2022

web home repairs made easy old house journal windows old house journal old house eco handbook comptia a core 2 exam guide to operating systems and security

how to restore old windows the craftsman blog - Mar 09 2023

web old windows made easy the simple way to restore wood windows scott sidler author 4 2 out of 5 stars kindle edition 4 434 39 other new and used 4 295 71 do

old windows made easy abatron - Feb 08 2023

web it is the only step by step guide on old windows that walks you through the restoration and repair process from beginning to end you ll learn proper order of operations window

pdf old windows made easy the simple way to restore - Apr 10 2023

web old windows made easy 75 page book on the simple way to restore wood windows this book by historic preservationist and contractor scott sidler has a simple

old windows made easy the simple way to restore - Aug 14 2023

web dec 1 2014 it is the only step by step guide on old windows that walks you through the restoration and repair process from beginning to end you ll learn proper order of