



Prepared in cooperation with



American Welding Society

AWS Entry Level Welder – Phase 1

nccer

TRAINEE GUIDE

**NATIONAL
CENTER FOR
CONSTRUCTION
EDUCATION AND
RESEARCH**

2003 Revision



Welding Aws Version

John P. Frick



Welding Aws Version:

Whispering the Secrets of Language: An Psychological Journey through **Welding Aws Version**

In a digitally-driven earth wherever screens reign supreme and quick connection drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words usually move unheard. Yet, set within the pages of **Welding Aws Version** a interesting literary value pulsating with raw feelings, lies a fantastic quest waiting to be undertaken. Written by a talented wordsmith, this enchanting opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound influence resonating within the material of each word. Within the psychological depths with this moving evaluation, we shall embark upon a honest exploration of the book is core subjects, dissect its charming writing model, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

<https://ftp.thebrandexperience.com/data/scholarship/HomePages/Mental%20Health%20Best.pdf>

Table of Contents Welding Aws Version

1. Understanding the eBook Welding Aws Version
 - The Rise of Digital Reading Welding Aws Version
 - Advantages of eBooks Over Traditional Books
2. Identifying Welding Aws Version
 - 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 Welding Aws Version
 - User-Friendly Interface
4. Exploring eBook Recommendations from Welding Aws Version
 - Personalized Recommendations

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

- 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

Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version. 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 Welding Aws Version any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Welding Aws Version Books

What is a Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version 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 Welding Aws Version :

mental health best

yoga practice pro
toolkit mindfulness meditation

toolkit emotional healing

latest sleep optimization
framework weight loss

best weight loss

therapy techniques ideas

yoga practice ideas

yoga practice best

fitness planner tutorial

healthy recipes checklist

top biohacking
weight loss top

emotional healing planner

Welding Aws Version :

beer mechanics of materials 6th solutions chapter 2 pdf - Apr 08 2022

solutions pdf mechanics of materials beer and johnston 6th ed mechanics of materials 6th edition beer solution chapter 2
ferdina p beer university sakarya Üniversitesi course

mechanics of materials 6th edition solutions and answers - Aug 24 2023

beer johnston mechanics of materials solution manual 6th pdf click the start the download

[chapter 03 solutions mechanics of materials 6th edition](#) - Jun 10 2022

materials engineering mechanics dynamics 6th edition meriam kraige beer johnston materials mechanics solution guide

materials beer 6th amp amp mechanics level 6

mechanics of materials 6th edition textbook - Apr 20 2023

mechanics of materials 6th edition solutions author ferdinand beer publisher mcgraw hill science engineering math isbn

9780073380285 select chapter we have answers for this

[beer and johnston mechanics of materials solution manual 6th](#) - Mar 07 2022

beer johnston mechanics of materials solution manual 6th pdf - Sep 13 2022

230056414 beer mechanics of materials 6th solutions chapter 2 pdf 150508231457 lva1 app6892 150921044243 lva1

app6892

solution manual of mechanics of material by beer - Sep 25 2023

now with expert verified solutions from mechanics of materials 6th edition you ll learn how to solve your toughest homework

problems our resource for mechanics of materials includes

mechanics of materials ferdinand beer et al 6th - Jul 11 2022

jan 4 2011 bibliographic information beer and johnston s mechanics of materials is the uncontested leader for the teaching

of solid mechanics

[chapter 11 solutions mechanics of materials 6th edition chegg](#) - Dec 16 2022

chapter 03 solutions mechanics of materials 6th edition free ebook download solution for chapter 3 beer mechanics of

materials 5e solutions chapter 4 thou can buy it from the

[mechanics of materials 6th edition beer solution docsity](#) - May 09 2022

access mechanics of materials 6th edition solutions now our solutions are written by chegg experts so you can be assured of

the highest quality

mechanics of materials 6th edition beer solution chapter 3 - Oct 14 2022

hello i need full version of mechanics of materials solution manual 6th if anyone have this please send it to me at <mailto:mohammad9656036@gmail.com>

mohammad9656036@gmail.com

[mechanics of materials 6th edition textbook solutions bartleby](#) - Nov 15 2022

chapter 03 solutions mechanics of materials 6th edition angel perez a determine the maximum shearing stress caused by a 4

6 kn m torque T in the 76 mm diameter shaft shown

[mechanics of materials 6th edition beer solution chapter 3 studocu](#) - Mar 19 2023

access mechanics of materials 6th edition chapter 11 solutions now our solutions are written by chegg experts so you can be assured of the highest quality

mechanics of materials beer 6th edition solutions manual pdf - Jan 05 2022

mechanics of materials beer and johnston 6th ed - Aug 12 2022

dec 27 2017 the primary subject on this ebook is generally lined about beer and johnston mechanics of materials solution manual 6th edition and fulfilled

sixth edition mechanics of mercer university - Feb 18 2023

mechanical engineering textbook solutions for mechanics of materials 6th edition ferdinand pierre beer and others in this series view step by step homework solutions for your

beer johnston mechanics of materials solution manual 6th pdf - Jul 23 2023

download beer johnston mechanics of materials solution manual 6th pdf this document was uploaded by user and they confirmed that they have the permission to share it if you are

mechanics of materials 6th edition textbook solutions chegg - Dec 04 2021

[mechanics of materials 6th edition solutions studysoup](#) - Jan 17 2023

knowing that the allowable shearing stress is 75 mpa in each of the three solid shafts determine the required diameter of a shaft ab b shaft cd c shaft ef solution statics tab ta

download beer johnston mechanics of materials solution - Jun 22 2023

mechanics of materials 6th edition beer solution chapter 3 cchhaapptteerr proprietary material studocu chapter problem determine the torque that causes

mechanics of materials 6th edition beer johnston solution - Nov 03 2021

mechanics of materials ferdinand beer jr johnston e - Feb 06 2022

[mechanics of materials 6th edition beer solution chapter 2 studocu](#) - May 21 2023

sixthmechanics of materials edition beer johnston dewolf mazurek example 6 01 solution determine the horizontal force per unit length or shear flow q on the lower

photos of the week dangling hay annular eclipse scythe - Nov 28 2021

15 hours ago basque reaper alaitz imaz cuts grass with a scythe during a sega proba grass cutting competition with scythes in the northern spanish basque city of hernani on october

hernani spanish edition hugo victor amazon com tr kitap - Jul 17 2023

hernani spanish edition hugo victor amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde ayrıntılı şekilde açıklandığı üzere alışveriş yapmanızı sağlamak alışveriş

hernani spanish edition by victor hugo alibris - Jun 16 2023

buy hernani spanish edition by victor hugo online at alibris we have new and used copies available in 1 editions starting at 644 shop now

luxury mountain view homes for sale in hernani basque - Sep 07 2022

properties with garden in hernani spain properties with bar in hernani spain mountain view properties in hernani spain show more your destination for buying luxury mountain view

hernani drama wikipedia - Mar 01 2022

the battle of hernani sarah bernhardt as doña sol 1877 hernani full title hernani ou l honneur castillan is a drama in rhyming alexandrines by the french romantic author victor

hernani player profile 23 24 transfermarkt - Jan 31 2022

jul 12 2017 highest market value 6 50m dec 29 2020 last update jun 12 2023 market value details full name hernani

azevedo junior date of birth mar 27 1994 place of birth

fortuna spanish edition kindle edition amazon com - May 03 2022

mar 15 2023 hernán díaz compone en fortuna un magistral puzle literario una suma de voces de versiones confrontadas que se complementan se matizan y se contradicen y al hacerlo

spain rejects israeli claims of its officials aligning with hamas - Jan 19 2021

tue 17 oct 2023 06 20 edt madrid has dismissed israel s claims that some members of spain s acting coalition government have aligned themselves with isis style terrorism by criticising

hernani spain wikipedia - Aug 06 2022

hernani club de rugby elkarteak hcre is a highly respected rugby team playing in the spanish division of honour its best result was in the 1983 84 season when it ranked second the team

sancionan con 2 años de inhabilitación deportiva a alejandro - Apr 21 2021

58 minutes ago el monza dio a conocer la notificación que le entregó la fifa de dos años de inhabilitación deportiva en una primera instancia para alejandro gómez el campeón del

hernani spanish edition paperback march 18 2015 - Jul 05 2022

mar 18 2015 hernani spanish edition hugo victor on amazon com free shipping on qualifying offers hernani spanish edition *bedbugs carried into spanish hotels by christian pilgrims the* - Feb 17 2021

oct 19 2023 by james badcock in madrid 19 october 2023 3 06pm bedbugs have been spread by christians undertaking the st james way pilgrimage in spain forcing hostel

jennifer hermoso called up to spain squad for first time since - Aug 26 2021

2 days ago former president of the spanish football federation luis rubiales leaves the audiencia nacional court in madrid on september 15 2023 five days after resigning as

valladolid director josé luis cienfuegos explains his first edition - Sep 26 2021

54 minutes ago running oct 21 28 in valladolid the capital city of spanish region castilla leon the seminci s 68th edition marks the first under new director josé luis cienfuegos

hernani jr com official website - Jun 04 2022

hernani signs with palma calcio parma calcio has officially signed hernani jr from zenit st petersburg hernaniaj contact

spanish teacher claims private school sacked her for being too - May 23 2021

oct 19 2023 a leading private school is facing claims it unfairly sacked a spanish teacher who was told she was too spicy to work there the high school of dundee which charges fees of

hernani spanish edition kindle edition amazon com - Mar 13 2023

dec 24 2013 buy hernani spanish edition read kindle store reviews amazon com amazon com hernani spanish edition ebook hugo victor kindle store skip to main

hernani spanish edition paperback april 5 2017 - May 15 2023

apr 5 2017 hernani spanish edition hugo victor on amazon com free shipping on qualifying offers hernani spanish edition

maluma anuncia en un concierto que será padre de una niña - Mar 21 2021

2 hours ago maluma utilizó un par de minutos al final de su concierto del jueves en washington para estrenar el videoclip procura en el que se revela que muy pronto se convertirá en padre

hernani spanish edition 9781545165270 ebay - Jan 11 2023

may 6 2022 find many great new used options and get the best deals for hernani spanish edition at the best online prices at ebay free shipping for many products

hernani spanish edition pdf download zlibrary cc - Sep 19 2023

read download pdf hernani spanish edition free update the latest version with high quality try now

hernani pdf free download epub pub - Apr 02 2022

our partners will collect data and use cookies for ad personalization and measurement learn how we and our ad partner

google collect and use data

liverpool s andy robertson faces three months out with - Oct 28 2021

4 hours ago last modified on fri 20 oct 2023 11 56 edt liverpool are likely to lose andy robertson for three months after it was confirmed the defender needs surgery on the shoulder

cd hernani wikipedia - Dec 30 2021

2020 21 división de honor group 1 2nd of 10 home colours away colours club deportivo hernani is a spanish football club based in hernani gipuzkoa in the autonomous

luxury home for sale in hernani basque country spain - Dec 18 2020

your destination for buying luxury property in hernani basque country spain discover your dream home among our modern houses penthouses and villas for sale hernani spain

jenni hermoso called up by spain for first time since luis - Jun 23 2021

2 days ago jenni hermoso has been called up by spain for the first time since she was kissed on the lips by luis rubiales after the world cup final hermoso was included in montse

hernani spanish edition hugo victor 9781523878864 - Aug 18 2023

hernani spanish edition by hugo victor isbn 10 152387886x isbn 13 9781523878864 createspace independent publishing platform 2016 softcover

esto es lo que le está costando a ee uu ayudar a ucrania e - Jul 25 2021

oct 20 2023 tom foreman de cnn analiza cuánta ayuda ha enviado estados unidos a ucrania e israel y cómo se sienten los estadounidenses sobre el costo de ayudar a sus aliados

hernani spanish edition hugo victor 9781981399505 - Oct 08 2022

abebooks com hernani spanish edition 9781981399505 by hugo victor and a great selection of similar new used and collectible books available now at great prices hernani spanish edition hugo victor 9781981399505 abebooks

hernani spanish edition paperback december 4 2017 - Nov 09 2022

dec 4 2017 hernani spanish edition hugo victor on amazon com free shipping on qualifying offers hernani spanish edition tourism in hernani what to see tourist information spain info - Dec 10 2022

may 23 2023 hernani washed by the river urumea and nestled at the foot of mount santa bárbara is hernani only 9 kilometres from san sebastián this small town is famous for the

hernani spanish edition by victor hugo book reviews - Apr 14 2023

want to read kindle 2 19

hernani spanish edition kindle edition amazon in - Feb 12 2023

select the department you want to search in

chapter 10 homework pdf torque rotation around a fixed - Jun 02 2022

web chapter 10 homework free download as pdf file pdf text file txt or read online for free mastering physics chapter 10 dynamics of rotational motion answers to my homework

chapter 10 - Aug 04 2022

web exercise 10 2 description a calculate the net torque about point o for the two forces applied as in the figure the rod and both forces are in the plane of the page take positive torques to be counterclockwise part a calculate the net torque about point for the two forces applied as in the figure the rod and both forces are in the

chapter 10 mastering physics flashcards quizlet - Dec 08 2022

web chapter 10 mastering physics flashcards learn test match flashcards learn test match created by sttucker97 terms in this set 3 question 1 the force is in the direction of motion $\theta = 0$ $\cos \theta = 1$ w fd sign of w the block has its greatest positive acceleration kinetic energy k increases the most maximum energy is

masteringphysics make learning part of the grade - Nov 07 2022

web fizik alanında tüm dünyada yaygın biçimde kullanılan teknolojik açıdan en ileri eğitsel olarak etkinliği kanıtlanmış online öğrenme ödev ve değerlendirme sistemi masteringphysics e hoş geldiniz young ve freedman Üniversite fiziği 12 baskı cilt 1 ve 2 yi destekleyen masteringphysics in sunduğu türkçe

mastering physics pearson - Apr 12 2023

web personalize learning one student at a time today reaching every student can feel out of reach with mylab and mastering you can connect with students meaningfully even from a distance built for flexibility these digital platforms let you create a course to best fit the unique needs of your curriculum and your students

mastering physics hw 10 flashcards quizlet - Sep 05 2022

web chemistry write balanced equations for the combustion of each of the following substances a methane b propane c cyclohexane d ethanol e sucrose verified answer anatomy and physiology

physics with masteringphysics 4th edition solutions studysoup - Oct 06 2022

web need answers to physics with masteringphysics 4th edition published by pearson get help now with immediate access to step by step textbook answers solve your toughest physics problems now with studysoup

phys 160 george mason university physics i studocu - May 01 2022

web mastering physics ch 01 hw key variation prob 1 7 3 mastering physics ch 01 hw components of vector 4 mastering physics ch 01 hw components of vectors mastering physics ch 01 hw key variation prob 1 7 2 mastering physics ch 01 hw bridging problem vectors on the roof mastering physics ch 01 hw components of

mastering physics ch 10 hw college physics i brian uzpen lccc - Jun 14 2023

web mastering physics ch 10 hw college physics i brian uzpen lccc free download as pdf file pdf text file txt or read online for free mastering physics

mastering physics solutions chapter 10 rotational a plus - Jul 15 2023

web may 26 2018 chapter 10 rotational kinematics and energy q 119ip suppose we use a new yo yo that has the same mass as the original yo yo and an axle of the same radius the new yo yo has a different mass distribution most of its mass is concentrated near the rim

mastering physics solutions 4th edition google drive - Aug 16 2023

web jun 26 2018 mastering physics solutions chapter 4 two dimensional kinematics owner hidden jun 5 2018 mastering physics solutions chapter 5 newton s laws of motion owner hidden jun 5 2018 mastering physics solutions chapter 5 newton s laws of motion

mastering physics ch 10 hw calculating torques using two - Jul 03 2022

web mastering physics ch 10 hw calculating torques using two standard methods pt 1 university george mason university course university physics i phys 160 186 documents

masteringphysics ch 10 course hero - Feb 27 2022

web view notes masteringphysics ch 10 from phys 2211 at georgia state university perimeter college masteringphysics assignment print

masteringphysics ch 02 hw flashcards quizlet - Jan 29 2022

web created by strieker101 teacher terms in this set 25 0 m s consulting the graph shown in the figure find the object s average velocity over the time interval from 0 to 1 second 20 m s find the average velocity over the time interval from 1 to 3 seconds 13 3 m s find the average velocity over the time interval from 3 to 6 seconds 0 m s

mastering physics ch 10 hw 10 29 pt 1 studocu - May 13 2023

web mastering physics ch 10 hw 10 29 pt 1 1 of 1 a thin light string is wrapped around the studocu southern new hampshire university university of california los angeles university of georgia university of houston clear lake

mastering physics with pearson etext instant access for quizlet - Mar 11 2023

web find step by step solutions and answers to mastering physics with pearson etext instant access for university physics with modern physics 9780135205907 as well as thousands of textbooks so you can move forward with confidence

mastering physics ch 10 hw 10 1 of 1 next three forces - Feb 10 2023

web mastering physics ch 10 hw 10 1 of 1 next three forces are applied to a wheel of studocu skip to document western governors university silver creek high school colorado university of houston clear lake maryville university studocu university

mastering physics solutions 4th edition a plus topper - Jan 09 2023

web chapter 10 rotational kinematics and energy chapter 11 rotational dynamics and static equilibrium chapter 12 gravity
chapter 13 oscillations about equilibrium chapter 14 waves and sounds

mastering physics ch 01 hw components of vectors - Dec 28 2021

web mastering physics ch 01 hw components of vectors 1 of 1 shown is a 10 by 10 grid with studocu skip to document ai
questions weekly physics homework university physics i phys 160 express your answer to the nearest integer mastering
physics ch 9 flywheel kinematics university physics i

mastering physics ch 01 hw components of vector 4 - Mar 31 2022

web shown is a 10 by 10 grid with coordinate axes and figure 1 the grid runs from 5 to 5 on both axes drawn on this grid are
four vectors labeled through this problem will ask you various questions about these vectors all answers should be in decimal
notation unless otherwise specified