

SECTION 1 Measuring Motion continued

The average speed of the dog is:

$$\text{average speed} = \frac{\text{total distance walked}}{\text{total time}} = \frac{7 \text{ m}}{10 \text{ s}} = .07 \text{ m/s}$$

What Is Velocity?

Suppose that two birds leave the same tree at the same time. They both fly at 10 km/h for 5 min, then 5 km/h for 10 min. However, they don't end up in the same place. Why not?

The birds did not end up in the same place because they flew in different directions. Their speeds were the same, but because they flew in different directions, their velocities were different. **Velocity** is the speed of an object and its direction. **ET**

The velocity of an object is constant as long as both speed and direction are constant. If a bus driving at 15 m/s south speeds up to 20 m/s south, its velocity changes. If the bus keeps moving at the same speed but changes direction from south to east, its velocity also changes. If the bus brakes to a stop, the velocity of the bus changes again.

The table below shows that velocity is a combination of both the speed of an object and its direction.

Speed	Direction	Velocity
15 m/s	south	15 m/s south
20 m/s	south	20 m/s south
20 m/s	east	20 m/s east
0 m/s	east	0 m/s east

Velocity changes when the speed changes, when the direction changes, or when both speed and direction change. The table below describes various situations in which the velocity changes.

Situation	What changes
Skidding falling layer and basket	
Runner going around a turn on a track	direction
Car taking an exit off a highway	speed and direction
Train arriving at a station	speed
Baseball being caught by a catcher	speed
Baseball hit by a batter	
	speed and direction

**READING CHECK**

B. Analyze Someone tells you that the velocity of a car is 55 m/s. Is this correct? Explain your answer.

**Say It**

Share Experiences Have you ever experienced a change in velocity on an amusement park ride? In pairs, share an experience. Explain how the velocity changed—was it a change in speed, direction, or both?

TAKE A LOOK

B. Identify Fill in the empty boxes in the table.

Measuring Motion Section 1 Interactive Textbook

Answer Key

Joacim Rocklöv



Measuring Motion Section 1 Interactive Textbook Answer Key:

This is likewise one of the factors by obtaining the soft documents of this **Measuring Motion Section 1 Interactive Textbook Answer Key** by online. You might not require more era to spend to go to the books start as with ease as search for them. In some cases, you likewise reach not discover the broadcast Measuring Motion Section 1 Interactive Textbook Answer Key that you are looking for. It will extremely squander the time.

However below, subsequent to you visit this web page, it will be correspondingly very easy to get as without difficulty as download lead Measuring Motion Section 1 Interactive Textbook Answer Key

It will not resign yourself to many mature as we tell before. You can attain it even if accomplish something else at home and even in your workplace. therefore easy! So, are you question? Just exercise just what we meet the expense of below as competently as review **Measuring Motion Section 1 Interactive Textbook Answer Key** what you as soon as to read!

https://staging.conocer.cide.edu/results/book-search/HomePages/Imagining_A_Medieval_English_Nation.pdf

Table of Contents Measuring Motion Section 1 Interactive Textbook Answer Key

1. Understanding the eBook Measuring Motion Section 1 Interactive Textbook Answer Key
 - The Rise of Digital Reading Measuring Motion Section 1 Interactive Textbook Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Measuring Motion Section 1 Interactive Textbook Answer Key
 - 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 Measuring Motion Section 1 Interactive Textbook Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Measuring Motion Section 1 Interactive Textbook Answer Key

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

- Fact-Checking eBook Content of Measuring Motion Section 1 Interactive Textbook Answer Key
 - 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

Measuring Motion Section 1 Interactive Textbook Answer Key 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 Measuring Motion Section 1 Interactive Textbook Answer Key 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 Measuring Motion Section 1 Interactive Textbook Answer Key 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 Measuring Motion Section 1 Interactive Textbook Answer Key free PDF files is convenient, it's 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 Measuring Motion Section 1 Interactive Textbook Answer Key. 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 Measuring Motion Section 1 Interactive Textbook Answer Key any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Measuring Motion Section 1 Interactive Textbook Answer Key Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook's credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What's the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Measuring Motion Section 1 Interactive Textbook Answer Key is one of the best books in our library for free trial. We provide a copy of Measuring Motion Section 1 Interactive Textbook Answer Key in digital format, so the resources that you find are reliable. There are also many eBooks related to Measuring Motion Section 1 Interactive Textbook Answer Key. Where to download Measuring Motion Section 1 Interactive Textbook Answer Key online for free? Are you looking for Measuring Motion Section 1 Interactive Textbook Answer Key PDF? This is definitely going to save you time and cash in something you should think about. If you're trying to find then search around for online. Without a doubt, there are numerous of these available and many of them have the

freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Measuring Motion Section 1 Interactive Textbook Answer Key. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Measuring Motion Section 1 Interactive Textbook Answer Key are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Measuring Motion Section 1 Interactive Textbook Answer Key. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Measuring Motion Section 1 Interactive Textbook Answer Key To get started finding Measuring Motion Section 1 Interactive Textbook Answer Key, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Measuring Motion Section 1 Interactive Textbook Answer Key So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Measuring Motion Section 1 Interactive Textbook Answer Key. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Measuring Motion Section 1 Interactive Textbook Answer Key, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Measuring Motion Section 1 Interactive Textbook Answer Key is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Measuring Motion Section 1 Interactive Textbook Answer Key is universally compatible with any devices to read.

Find Measuring Motion Section 1 Interactive Textbook Answer Key :

[imagining a medieval english nation](#)

improper pursuit

[imagining maine 2006 calendar](#)

impala 1958-2000

immunity and international criminal law

impact of divorce on the extended family

impact fifty short stories

impressionism pano postcard m

~~immortality triumphant the existence of a god and~~

~~importance of being eric dolphy~~

imatges de catalunya i illes balears

impounded people japanese-americans in the relocation centers

~~importance of what we care about philosophical essays~~

~~improper miss prym~~

~~improper pursuits – the scandalous life of lady di beauclerk~~

Measuring Motion Section 1 Interactive Textbook Answer Key :

up in the air the story of bessie coleman trailblazer - Apr 10 2023

web abebooks com up in the air the story of bessie coleman trailblazer biographies 9780876149782 by hart philip s o connor

barbara and a great selection of similar new used and collectible books available now at great prices

up in the air the story of bessie coleman - Sep 22 2021

up in the air the story of bessie coleman trailblazer - Feb 25 2022

web up in the air the story of bessie coleman trailblazer biographies philip s hart a cotswold village real time hybrid learning

engagement in fresno california oea worked with fresno unified school district to develop a hybrid engagement package

up in the air the story of bessie coleman trailblazer - Aug 14 2023

web up in the air the story of bessie coleman trailblazer biographies hart philip s on amazon com free shipping on qualifying offers

up in the air the story of bessie coleman trailblazer - Nov 24 2021

web jul 13 2021 ethics is an end to end process it starts with policymaking then decision making then design of software

then design of what data to use then training algorithms then how end users are using the data and results the ethics

governance for the whole end to end process is an essential part when building learning analytics and ai in

up in the air the story of bessie coleman trailblazer - Aug 02 2022

web up in the air the story of bessie coleman trailblazer biographies publisher carolrhoda books sku song0876149786 isbn 9780876149782 condition used price 6 73 condition shipping tax will be calculated at checkout estimated delivery time 7 14 days international delivery time 2 to 4 weeks

up in the air the story of bessie coleman google books - Jan 07 2023

web aug 1 2009 up in the air the story of bessie coleman user review kirkus a serviceable biography in the traiblazers series about the brief and incandescent life of bessie coleman 18921926

up in the air the story of bessie coleman trailbla pdf pdf - Mar 29 2022

web up in the air the story of bessie coleman trailbla pdf upload caliva z murray 2 32 downloaded from elections freep com on august 1 2023 by caliva z murray up in the air the story of bessie coleman trailbla pdf pdf introduction page 5 about this book up in the air the story of bessie coleman trailbla pdf pdf page 5 acknowledgments

amazon com customer reviews up in the air the story of - Dec 06 2022

web find helpful customer reviews and review ratings for up in the air the story of bessie coleman at amazon com read honest and unbiased product reviews from our users

up in the air the story of bessie coleman trailblazer - Feb 08 2023

web abebooks com up in the air the story of bessie coleman trailblazer biographies new in shrink wrap up in the air the story of bessie coleman trailblazer biographies by hart philip s

up in the air the story of bessie coleman trailbla 2022 - Oct 24 2021

web trailbla 1 up in the air the story of bessie coleman trailbla recognizing the habit ways to acquire this books up in the air the story of bessie coleman trailbla is additionally useful you have remained in right site to begin getting this info acquire the up in the air the story of bessie coleman trailbla belong to that we offer here and

up in the air the story of bessie coleman trailbla pdf - Dec 26 2021

web jun 9 2023 up in the air the story of bessie coleman trailbla 2 8 downloaded from uniport edu ng on june 9 2023 by guest to love the culture of what he calls airworld finding contentment within pressurized cabins anonymous hotel rooms and a wardrobe of wrinkle free slacks with a letter of resignation sitting on his boss s desk

up in the air the story of bessie coleman trailbla pdf - Apr 29 2022

web jul 15 2023 up in the air the story of bessie coleman trailbla 1 8 downloaded from uniport edu ng on july 15 2023 by guest up in the air the story of bessie coleman trailbla recognizing the pretentiousness ways to acquire this books up in the air the story of bessie coleman trailbla is additionally useful

up in the air the story of bessie coleman trailbla copy - Jan 27 2022

web may 18 2023 air the story of bessie coleman trailbla member that we come up with the money for here and check out

the link you could buy guide up in the air the story of bessie coleman trailblazer or acquire it as soon as feasible

up in the air the story of bessie coleman trailblazer - May 31 2022

web mar 3 2023 born to fly is the gripping story of the fearless women pilots who aimed for the skies and beyond just nine years after american women finally got the right to vote a group of trailblazers soared to new heights in the 1929 air derby the first women s air race across the u s follow the incredible lives of legend amelia earhart who has

up in the air the story of bessie coleman trailblazers by philip - Sep 03 2022

web up in the air the story of bessie coleman trailblazers by philip s hart in flight up in the air 1 mile high up in the air 2 grounded up in the air 3 and mr beautiful up in the air 4 up in the air the story of bessie coleman trailblazer biographies paperback may 1

up in the air the story of bessie coleman trailblazer - Oct 04 2022

web presents the story of bessie coleman an american who in 1920 traveled to france to become the first black woman to earn a pilot s license paperback 112 pages published on june 1 1996

up in the air the story of bessie coleman google books - Jun 12 2023

web up in the air the story of bessie coleman philip s hart carolrhoda books 1996 juvenile nonfiction 80 pages the author of flying free america s first black aviators c 1992

up in the air the story of bessie coleman goodreads - May 11 2023

web may 1 1996 20 ratings4 reviews these insightful biographies highlight men and women who have struggled to overcome adversity to accomplish their goals along the way these inspiring people have blazed a trail through history genres *up in the air the story of bessie coleman trailblazer* - Nov 05 2022

web amazon in buy up in the air the story of bessie coleman trailblazer biographies book online at best prices in india on amazon in read up in the air the story of bessie coleman trailblazer biographies book reviews author details and more at amazon in free delivery on qualified orders

up in the air the story of bessie coleman trailblazer joycelyn - Jul 01 2022

web bessie coleman carol alexander 2023 04 05 meet bessie coleman she was the first african american woman to earn her international pilots license and she did so against great odds no one in america was willing to teach a black woman to fly still bessie never gave up on her dream of becoming a world famous aviator

up in the air the story of bessie coleman hart philip s free - Jul 13 2023

web english 80 pages 24 cm presents the story of bessie coleman an american who in 1920 traveled to france to become the first black woman to earn a pilot s license includes bibliographical references page 78 and index dreaming of flying on to europe the barnstorming life flying high in florida afterword the inspiration

up in the air the story of bessie coleman google books - Mar 09 2023

web up in the air the story of bessie coleman user review kirkus a serviceable biography in the trailblazers series about the brief and incandescent life of bessie coleman 18921926 the first black woman to earn a pilot s license hart flying free 1992 not read full review

zuckerfrei backen zuckerfrei backen xxl die 111 besten - Jul 05 2023

web backen ohne zucker leckere backrezepte ohne zucker authentische erfahrungsberichte ausführliche tests und viele tipps zum zuckerfreien backen darum dreht sich diese

zuckerfrei backen einfach zuckerfrei - Jun 04 2023

web zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot donuts etc

suchergebnis auf amazon de für zuckerfreie backen - Jul 25 2022

web zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot donuts etc by cooking

zuckerfrei backen zuckerfrei backen xxl die 111 besten - Apr 21 2022

zuckerfrei backen zuckerfrei backen xxl die 111 besten - Dec 30 2022

web backen ohne zucker ran an den ofen jetzt müssen sie sich nur noch ihr Lieblingsrezept aussuchen und schon kann es losgehen denn zum backen ohne zucker benötigen sie

zuckerfrei backen zuckerfrei backen xxl die 111 b buch - Mar 21 2022

amazon com br ebooks kindle zuckerfrei backen zuckerfrei - Nov 28 2022

web zuckerfrei backen zuckerfrei backen xxl die 111 b buch zustand sehr gut so macht sparen spaß bis zu 70 ggü neupreis

zuckerfrei backen zuckerfrei backen xxl die 111 b - May 23 2022

web zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot donuts etc ebook

backen ohne zucker rezepte eat smarter - Sep 26 2022

web zuckerfrei backen wir haben 1 266 leckere zuckerfrei backen rezepte für dich gefunden finde was du suchst köstlich genial jetzt ausprobieren mit chefkoch de

zuckerfrei backen zuckerfrei backen xxl die 111 - Oct 08 2023

web apr 25 2019 zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für

kuchen muffins kekse brownies brot donuts etc

zuckerfrei backen zuckerfrei backen xxl die 111 b buch - Oct 28 2022

web suchergebnis auf amazon de für zuckerfreie backen zum hauptinhalt wechseln de hallo lieferadresse wählen alle wähle die kategorie aus in der du suchen möchtest suche

zuckerfrei backen zuckerfrei backen xxl die 111 beste - Sep 07 2023

web buy zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot donuts etc by

backen ohne zucker backen macht glücklich - May 03 2023

web find helpful customer reviews and review ratings for zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen

zuckerfrei backen zuckerfrei backen xxl die 111 besten - Feb 17 2022

zuckerfrei backen zuckerfrei backen xxl die 111 besten - Aug 06 2023

web apr 24 2019 buy zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot

suchergebnis auf amazon de für backen zuckerfrei - Apr 02 2023

web lee ahora en digital con la aplicación gratuita kindle

amazon com customer reviews zuckerfrei backen zuckerfrei - Jan 31 2023

web entdecke zuckerfrei backen zuckerfrei backen xxl die 111 b buch zustand sehr gut in großer auswahl vergleichen angebote und preise online kaufen bei ebay

zuckerfrei backen 15 rezepte für anfänger - Mar 01 2023

web compre o ebook zuckerfrei backen zuckerfrei backen xxl die 111 besten backrezepte ohne zucker inklusive rezepte für kuchen muffins kekse brownies brot donuts etc

zuckerfrei backen zuckerfrei backen xxl die 111 b buch - Aug 26 2022

web zuckerfrei backen zuckerfrei backen xxl die 111 b buch zustand sehr gut so macht sparen spaß bis zu 70 ggü neupreis

zuckerfrei backen rezepte chefkoch - Jun 23 2022

web zuckerfrei backen zuckerfrei backen xxl die 111 b buch zustand sehr gut bücher zeitschriften bücher ebay

gusset plate wikipedia - Mar 03 2022

web design reconsideration a kt gusset plate gusset plates can be made into a variety of shapes and sizes and from a range of materials gusset plates are usually square or rectangular but can be triangular or made into a customized shape to fit the

joint

plywood gusset plate design a simple example for stronger - Jun 18 2023

web may 11 2023 plywood gusset plate design is a type of design where plywood is used as a structural component and gusset plates are attached to join multiple pieces of plywood together the gusset plates are made of metal or wood and are used to reinforce and strengthen the plywood

wood trusses cwc - May 17 2023

web nailed plywood gusset plates these trusses offered acceptable spans but demanded considerable time to build economy through effi plate manufacturer usually designs the truss on behalf of the truss fabricator the truss design is initiated by the building designer who must specify the shape and span of

gusset plate an overview sciencedirect topics - Jan 01 2022

web 10 24 where is the width of the gusset plate and t_{g1} is defined as follows 10 25 view chapter truss bridges weiwei lin teruhiko yoda in bridge engineering 2017 8 4 4 design of truss members for modern truss bridges gusset plate connection not pinned connection is generally used

gusset plate design manual pdf document - May 05 2022

web jun 3 2018 in design of gusset plates where centerline of all members attached to the gusset plate pass through one point creating a concentric joint in order to achieve better seismic behavior higher ductility and smaller gusset plates the use of eccentric gusset connections shown in figure

birch plywood as gusset plates in glulam frame via mechanical - Aug 20 2023

web apr 15 2023 this so called whitmore effective width theory has been proven to be appropriate for the design of steel gusset plate connections in this study the validity of similar design criteria is evaluated on the failure onset of birch plywood gusset plates in the constructed glulam frames

design guide structural plywood and lvl ewp - Jan 13 2023

web 1 author ewpaa version 5 released 2018 disclaimer the advice provided in this publication is general in nature and is intended as a guide only whilst the information in this guide was accurate at the time of publication it is the users responsibility to

design of nailed and glued plywood gussets for lumber rigid - Feb 14 2023

web oct 3 2007 design of nailed and glued plywood gussets for lumber rigid frames by curtis j o james owen publication date 1960 topics lumber wooden frame buildings publisher urbana ill university of illinois agricultural experiment station *plywood gusset plates on lumber rafters wood design and* - Dec 12 2022

web mar 29 2008 i have been asked by a manufactured housing company to design a plywood gusset plate for a rafter not a

truss the rafter is 12 12 and spans 7 its a small module when designing a gusset plate for a truss you don t usually take moments into account as the members of a truss are analyzed for tension compression forces only

[gusset plate design pdf document](#) - Aug 08 2022

web oct 30 2014 embed size px iframe src vdocument in embed v1 gusset plate design 55844bc9375ac frameborder 0 marginwidth 0 marginheight 0 scrolling no style border 1px solid ccc margin bottom 5px max width 100 overflow hidden width 599px height 487px allowfullscreen iframe

site built truss engineering pse consulting engineers inc - Sep 09 2022

web oriented strand board osb or plywood gusset plates osb plywood gusset plates are much more common when it comes to custom site built wooden trusses sizing and calculating the osb plywood gusset plate becomes easier as the values for osb and plywood can be found in the national design specification for wood construction

how big should plywood gussets be upgradedhome com - Jun 06 2022

web apr 7 2021 find local contractors what is a gusset a plywood gusset is meant to replace rafters in the modern roofing system they are generally the same concept support across the entire space of the roof to create structural stability rafters are fine for this purpose but they tend to be more expensive than plywood gussets why go with

how to make a wood gusset ehov - Jul 07 2022

web plywood gusset template clamps handheld circular saw jigsaw sandpaper making wood gussets is one step in building a roof system gusset plates are used to provide structural strength where two wood or steel members join

[how to build a simple wood truss 15 steps with pictures wikihow](#) - Oct 10 2022

web mar 28 2021 how to build a simple wood truss download article parts 1 selecting the right type of truss 2 designing your truss 3 putting the truss together other sections questions answers video related articles references article summary co authored by barry zakar last updated march 28 2021 references approved

[repair of wood trusses mitek residential construction industry](#) - Feb 02 2022

web gussets of plywood oriented strand board o s b plywood and o s b are generally interchangeable the american plywood association s apa panel design figure 1 a typical damaged joint notice the connector plate teeth have pulled out of the lumber on the right side of the joint and one web is split along the grain also note the mud on the

tutorial 2 timber truss apex with plywood gusset plates - Apr 16 2023

web the connection will be made with gusset plates of finnish birch plywood with a thickness of 12 mm the gusset plate has a clear coverage of 250 mm in the rafters and 100 mm in the post figure 1 the face grain is horizontal to the connection figure 1 members to be connected the fasteners that will be used are nails with a tensile strength

[wood gusset connected trusses wgc trusses medeek forum](#) - Apr 04 2022

web jun 28 2018 the plywood or osb thickness will be 3/8 7/16 1/2 5/8 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 3/4 3 3 1/4 3 3/4 4 4 1/4 4 3/4 5 5 1/4 5 3/4 6 6 1/4 6 3/4 7 7 1/4 7 3/4 8 8 1/4 8 3/4 9 9 1/4 9 3/4 10 10 1/4 10 3/4 11 11 1/4 11 3/4 12 12 1/4 12 3/4 13 13 1/4 13 3/4 14 14 1/4 14 3/4 15 15 1/4 15 3/4 16 16 1/4 16 3/4 17 17 1/4 17 3/4 18 18 1/4 18 3/4 19 19 1/4 19 3/4 20 20 1/4 20 3/4 21 21 1/4 21 3/4 22 22 1/4 22 3/4 23 23 1/4 23 3/4 24 24 1/4 24 3/4 25 25 1/4 25 3/4 26 26 1/4 26 3/4 27 27 1/4 27 3/4 28 28 1/4 28 3/4 29 29 1/4 29 3/4 30 30 1/4 30 3/4 31 31 1/4 31 3/4 32 32 1/4 32 3/4 33 33 1/4 33 3/4 34 34 1/4 34 3/4 35 35 1/4 35 3/4 36 36 1/4 36 3/4 37 37 1/4 37 3/4 38 38 1/4 38 3/4 39 39 1/4 39 3/4 40 40 1/4 40 3/4 41 41 1/4 41 3/4 42 42 1/4 42 3/4 43 43 1/4 43 3/4 44 44 1/4 44 3/4 45 45 1/4 45 3/4 46 46 1/4 46 3/4 47 47 1/4 47 3/4 48 48 1/4 48 3/4 49 49 1/4 49 3/4 50 50 1/4 50 3/4 51 51 1/4 51 3/4 52 52 1/4 52 3/4 53 53 1/4 53 3/4 54 54 1/4 54 3/4 55 55 1/4 55 3/4 56 56 1/4 56 3/4 57 57 1/4 57 3/4 58 58 1/4 58 3/4 59 59 1/4 59 3/4 60 60 1/4 60 3/4 61 61 1/4 61 3/4 62 62 1/4 62 3/4 63 63 1/4 63 3/4 64 64 1/4 64 3/4 65 65 1/4 65 3/4 66 66 1/4 66 3/4 67 67 1/4 67 3/4 68 68 1/4 68 3/4 69 69 1/4 69 3/4 70 70 1/4 70 3/4 71 71 1/4 71 3/4 72 72 1/4 72 3/4 73 73 1/4 73 3/4 74 74 1/4 74 3/4 75 75 1/4 75 3/4 76 76 1/4 76 3/4 77 77 1/4 77 3/4 78 78 1/4 78 3/4 79 79 1/4 79 3/4 80 80 1/4 80 3/4 81 81 1/4 81 3/4 82 82 1/4 82 3/4 83 83 1/4 83 3/4 84 84 1/4 84 3/4 85 85 1/4 85 3/4 86 86 1/4 86 3/4 87 87 1/4 87 3/4 88 88 1/4 88 3/4 89 89 1/4 89 3/4 90 90 1/4 90 3/4 91 91 1/4 91 3/4 92 92 1/4 92 3/4 93 93 1/4 93 3/4 94 94 1/4 94 3/4 95 95 1/4 95 3/4 96 96 1/4 96 3/4 97 97 1/4 97 3/4 98 98 1/4 98 3/4 99 99 1/4 99 3/4 100 100 1/4 100 3/4 101 101 1/4 101 3/4 102 102 1/4 102 3/4 103 103 1/4 103 3/4 104 104 1/4 104 3/4 105 105 1/4 105 3/4 106 106 1/4 106 3/4 107 107 1/4 107 3/4 108 108 1/4 108 3/4 109 109 1/4 109 3/4 110 110 1/4 110 3/4 111 111 1/4 111 3/4 112 112 1/4 112 3/4 113 113 1/4 113 3/4 114 114 1/4 114 3/4 115 115 1/4 115 3/4 116 116 1/4 116 3/4 117 117 1/4 117 3/4 118 118 1/4 118 3/4 119 119 1/4 119 3/4 120 120 1/4 120 3/4 121 121 1/4 121 3/4 122 122 1/4 122 3/4 123 123 1/4 123 3/4 124 124 1/4 124 3/4 125 125 1/4 125 3/4 126 126 1/4 126 3/4 127 127 1/4 127 3/4 128 128 1/4 128 3/4 129 129 1/4 129 3/4 130 130 1/4 130 3/4 131 131 1/4 131 3/4 132 132 1/4 132 3/4 133 133 1/4 133 3/4 134 134 1/4 134 3/4 135 135 1/4 135 3/4 136 136 1/4 136 3/4 137 137 1/4 137 3/4 138 138 1/4 138 3/4 139 139 1/4 139 3/4 140 140 1/4 140 3/4 141 141 1/4 141 3/4 142 142 1/4 142 3/4 143 143 1/4 143 3/4 144 144 1/4 144 3/4 145 145 1/4 145 3/4 146 146 1/4 146 3/4 147 147 1/4 147 3/4 148 148 1/4 148 3/4 149 149 1/4 149 3/4 150 150 1/4 150 3/4 151 151 1/4 151 3/4 152 152 1/4 152 3/4 153 153 1/4 153 3/4 154 154 1/4 154 3/4 155 155 1/4 155 3/4 156 156 1/4 156 3/4 157 157 1/4 157 3/4 158 158 1/4 158 3/4 159 159 1/4 159 3/4 160 160 1/4 160 3/4 161 161 1/4 161 3/4 162 162 1/4 162 3/4 163 163 1/4 163 3/4 164 164 1/4 164 3/4 165 165 1/4 165 3/4 166 166 1/4 166 3/4 167 167 1/4 167 3/4 168 168 1/4 168 3/4 169 169 1/4 169 3/4 170 170 1/4 170 3/4 171 171 1/4 171 3/4 172 172 1/4 172 3/4 173 173 1/4 173 3/4 174 174 1/4 174 3/4 175 175 1/4 175 3/4 176 176 1/4 176 3/4 177 177 1/4 177 3/4 178 178 1/4 178 3/4 179 179 1/4 179 3/4 180 180 1/4 180 3/4 181 181 1/4 181 3/4 182 182 1/4 182 3/4 183 183 1/4 183 3/4 184 184 1/4 184 3/4 185 185 1/4 185 3/4 186 186 1/4 186 3/4 187 187 1/4 187 3/4 188 188 1/4 188 3/4 189 189 1/4 189 3/4 190 190 1/4 190 3/4 191 191 1/4 191 3/4 192 192 1/4 192 3/4 193 193 1/4 193 3/4 194 194 1/4 194 3/4 195 195 1/4 195 3/4 196 196 1/4 196 3/4 197 197 1/4 197 3/4 198 198 1/4 198 3/4 199 199 1/4 199 3/4 200 200 1/4 200 3/4 201 201 1/4 201 3/4 202 202 1/4 202 3/4 203 203 1/4 203 3/4 204 204 1/4 204 3/4 205 205 1/4 205 3/4 206 206 1/4 206 3/4 207 207 1/4 207 3/4 208 208 1/4 208 3/4 209 209 1/4 209 3/4 210 210 1/4 210 3/4 211 211 1/4 211 3/4 212 212 1/4 212 3/4 213 213 1/4 213 3/4 214 214 1/4 214 3/4 215 215 1/4 215 3/4 216 216 1/4 216 3/4 217 217 1/4 217 3/4 218 218 1/4 218 3/4 219 219 1/4 219 3/4 220 220 1/4 220 3/4 221 221 1/4 221 3/4 222 222 1/4 222 3/4 223 223 1/4 223 3/4 224 224 1/4 224 3/4 225 225 1/4 225 3/4 226 226 1/4 226 3/4 227 227 1/4 227 3/4 228 228 1/4 228 3/4 229 229 1/4 229 3/4 230 230 1/4 230 3/4 231 231 1/4 231 3/4 232 232 1/4 232 3/4 233 233 1/4 233 3/4 234 234 1/4 234 3/4 235 235 1/4 235 3/4 236 236 1/4 236 3/4 237 237 1/4 237 3/4 238 238 1/4 238 3/4 239 239 1/4 239 3/4 240 240 1/4 240 3/4 241 241 1/4 241 3/4 242 242 1/4 242 3/4 243 243 1/4 243 3/4 244 244 1/4 244 3/4 245 245 1/4 245 3/4 246 246 1/4 246 3/4 247 247 1/4 247 3/4 248 248 1/4 248 3/4 249 249 1/4 249 3/4 250 250 1/4 250 3/4 251 251 1/4 251 3/4 252 252 1/4 252 3/4 253 253 1/4 253 3/4 254 254 1/4 254 3/4 255 255 1/4 255 3/4 256 256 1/4 256 3/4 257 257 1/4 257 3/4 258 258 1/4 258 3/4 259 259 1/4 259 3/4 260 260 1/4 260 3/4 261 261 1/4 261 3/4 262 262 1/4 262 3/4 263 263 1/4 263 3/4 264 264 1/4 264 3/4 265 265 1/4 265 3/4 266 266 1/4 266 3/4 267 267 1/4 267 3/4 268 268 1/4 268 3/4 269 269 1/4 269 3/4 270 270 1/4 270 3/4 271 271 1/4 271 3/4 272 272 1/4 272 3/4 273 273 1/4 273 3/4 274 274 1/4 274 3/4 275 275 1/4 275 3/4 276 276 1/4 276 3/4 277 277 1/4 277 3/4 278 278 1/4 278 3/4 279 279 1/4 279 3/4 280 280 1/4 280 3/4 281 281 1/4 281 3/4 282 282 1/4 282 3/4 283 283 1/4 283 3/4 284 284 1/4 284 3/4 285 285 1/4 285 3/4 286 286 1/4 286 3/4 287 287 1/4 287 3/4 288 288 1/4 288 3/4 289 289 1/4 289 3/4 290 290 1/4 290 3/4 291 291 1/4 291 3/4 292 292 1/4 292 3/4 293 293 1/4 293 3/4 294 294 1/4 294 3/4 295 295 1/4 295 3/4 296 296 1/4 296 3/4 297 297 1/4 297 3/4 298 298 1/4 298 3/4 299 299 1/4 299 3/4 300 300 1/4 300 3/4 301 301 1/4 301 3/4 302 302 1/4 302 3/4 303 303 1/4 303 3/4 304 304 1/4 304 3/4 305 305 1/4 305 3/4 306 306 1/4 306 3/4 307 307 1/4 307 3/4 308 308 1/4 308 3/4 309 309 1/4 309 3/4 310 310 1/4 310 3/4 311 311 1/4 311 3/4 312 312 1/4 312 3/4 313 313 1/4 313 3/4 314 314 1/4 314 3/4 315 315 1/4 315 3/4 316 316 1/4 316 3/4 317 317 1/4 317 3/4 318 318 1/4 318 3/4 319 319 1/4 319 3/4 320 320 1/4 320 3/4 321 321 1/4 321 3/4 322 322 1/4 322 3/4 323 323 1/4 323 3/4 324 324 1/4 324 3/4 325 325 1/4 325 3/4 326 326 1/4 326 3/4 327 327 1/4 327 3/4 328 328 1/4 328 3/4 329 329 1/4 329 3/4 330 330 1/4 330 3/4 331 331 1/4 331 3/4 332 332 1/4 332 3/4 333 333 1/4 333 3/4 334 334 1/4 334 3/4 335 335 1/4 335 3/4 336 336 1/4 336 3/4 337 337 1/4 337 3/4 338 338 1/4 338 3/4 339 339 1/4 339 3/4 340 340 1/4 340 3/4 341 341 1/4 341 3/4 342 342 1/4 342 3/4 343 343 1/4 343 3/4 344 344 1/4 344 3/4 345 345 1/4 345 3/4 346 346 1/4 346 3/4 347 347 1/4 347 3/4 348 348 1/4 348 3/4 349 349 1/4 349 3/4 350 350 1/4 350 3/4 351 351 1/4 351 3/4 352 352 1/4 352 3/4 353 353 1/4 353 3/4 354 354 1/4 354 3/4 355 355 1/4 355 3/4 356 356 1/4 356 3/4 357 357 1/4 357 3/4 358 358 1/4 358 3/4 359 359 1/4 359 3/4 360 360 1/4 360 3/4 361 361 1/4 361 3/4 362 362 1/4 362 3/4 363 363 1/4 363 3/4 364 364 1/4 364 3/4 365 365 1/4 365 3/4 366 366 1/4 366 3/4 367 367 1/4 367 3/4 368 368 1/4 368 3/4 369 369 1/4 369 3/4 370 370 1/4 370 3/4 371 371 1/4 371 3/4 372 372 1/4 372 3/4 373 373 1/4 373 3/4 374 374 1/4 374 3/4 375 375 1/4 375 3/4 376 376 1/4 376 3/4 377 377 1/4 377 3/4 378 378 1/4 378 3/4 379 379 1/4 379 3/4 380 380 1/4 380 3/4 381 381 1/4 381 3/4 382 382 1/4 382 3/4 383 383 1/4 383 3/4 384 384 1/4 384 3/4 385 385 1/4 385 3/4 386 386 1/4 386 3/4 387 387 1/4 387 3/4 388 388 1/4 388 3/4 389 389 1/4 389 3/4 390 390 1/4 390 3/4 391 391 1/4 391 3/4 392 392 1/4 392 3/4 393 393 1/4 393 3/4 394 394 1/4 394 3/4 395 395 1/4 395 3/4 396 396 1/4 396 3/4 397 397 1/4 397 3/4 398 398 1/4 398 3/4 399 399 1/4 399 3/4 400 400 1/4 400 3/4 401 401 1/4 401 3/4 402 402 1/4 402 3/4 403 403 1/4 403 3/4 404 404 1/4 404 3/4 405 405 1/4 405 3/4 406 406 1/4 406 3/4 407 407 1/4 407 3/4 408 408 1/4 408 3/4 409 409 1/4 409 3/4 410 410 1/4 410 3/4 411 411 1/4 411 3/4 412 412 1/4 412 3/4 413 413 1/4 413 3/4 414 414 1/4 414 3/4 415 415 1/4 415 3/4 416 416 1/4 416 3/4 417 417 1/4 417 3/4 418 418 1/4 418 3/4 419 419 1/4 419 3/4 420 420 1/4 420 3/4 421 421 1/4 421 3/4 422 422 1/4 422 3/4 423 423 1/4 423 3/4 424 424 1/4 424 3/4 425 425 1/4 425 3/4 426 426 1/4 426 3/4 427 427 1/4 427 3/4 428 428 1/4 428 3/4 429 429 1/4 429 3/4 430 430 1/4 430 3/4 431 431 1/4 431 3/4 432 432 1/4 432 3/4 433 433 1/4 433 3/4 434 434 1/4 434 3/4 435 435 1/4 435 3/4 436 436 1/4 436 3/4 437 437 1/4 437 3/4 438 438 1/4 438 3/4 439 439 1/4 439 3/4 440 440 1/4 440 3/4 441 441 1/4 441 3/4 442 442 1/4 442 3/4 443 443 1/4 443 3/4 444 444 1/4 444 3/4 445 445 1/4 445 3/4 446 446 1/4 446 3/4 447 447 1/4 447 3/4 448 448 1/4 448 3/4 449 449 1/4 449 3/4 450 450 1/4 450 3/4 451 451 1/4 451 3/4 452 452 1/4 452 3/4 453 453 1/4 453 3/4 454 454 1/4 454 3/4 455 455 1/4 455 3/4 456 456 1/4 456 3/4 457 457 1/4 457 3/4 458 458 1/4 458 3/4 459 459 1/4 459 3/4 460 460 1/4 460 3/4 461 461 1/4 461 3/4 462 462 1/4 462 3/4 463 463 1/4 463 3/4 464 464 1/4 464 3/4 465 465 1/4 465 3/4 466 466 1/4 466 3/4 467 467 1/4 467 3/4 468 468 1/4 468 3/4 469 469 1/4 469 3/4 470 470 1/4 470 3/4 471 471 1/4 471 3/4 472 472 1/4 472 3/4 473 473 1/4 473 3/4 474 474 1/4 474 3/4 475 475 1/4 475 3/4 476 476 1/4 476 3/4 477 477 1/4 477 3/4 478 478 1/4 478 3/4 479 479 1/4 479 3/4 480 480 1/4 480 3/4 481 481 1/4 481 3/4 482 482 1/4 482 3/4 483 483 1/4 483 3/4 484 484 1/4 484 3/4 485 485 1/4 485 3/4 486 486 1/4 486 3/4 487 487 1/4 487 3/4 488 488 1/4 488 3/4 489 489 1/4 489 3/4 490 490 1/4 490 3/4 491 491 1/4 491 3/4 492 492 1/4 492 3/4 493 493 1/4 493 3/4 494 494 1/4 494 3/4 495 495 1/4 495 3/4 496 496 1/4 496 3/4 497 497 1/4 497 3/4 498 498 1/4 498 3/4 499 499 1/4 499 3/4 500 500 1/4 500 3/4 501 501 1/4 501 3/4 502 502 1/4 502 3/4 503 503 1/4 503 3/4 504 504 1/4 504 3/4 505 505 1/4 505 3/4 506 506 1/4 506 3/4 507 507 1/4 507 3/4 508 508 1/4 508 3/4 509 509 1/4 509 3/4 510 510 1/4 510 3/4 511 511 1/4 511 3/4 512 512 1/4 512 3/4 513 513 1/4 513 3/4 514 514 1/4 514 3/4 515 515 1/4 515 3/4 516 516 1/4 516 3/4 517 517 1/4 517 3/4 518 518 1/4 518 3/4 519 519 1/4 519 3/4 520 520 1/4 520 3/4 521 521 1/4 521 3/4 522 522 1/4 522 3/4 523 523 1/4 523 3/4 524 524 1/4 524 3/4 525 525 1/4 525 3/4 526 526 1/4 526 3/4 527 527 1/4 527 3/4 528 528 1/4 528 3/4 529 529 1/4 529 3/4 530 530 1/4 530 3/4 531 531 1/4 531 3/4 532 532 1/4 532 3/4 533 533 1/4 533 3/4 534 534 1/4 534 3/4 535 535 1/4 535 3/4 536 536 1/4 536 3/4 537 537 1/4 537 3/4 538 538 1/4 538 3/4 539 539 1/4 539 3/4 540 540 1/4 540 3/4 541 541 1/4 541 3/4 542 542 1/4 542 3/4 543 543 1/4 543 3/4 544 544 1/4 544 3/4 545 545 1/4 545 3/4 546 546 1/4 546 3/4 547 547 1/4 547 3/4 548 548 1/4 548 3/4 549 549 1/4 549 3/4 550 550 1/4 550 3/4 551 551 1/4 551 3/4 552 552 1/4 552 3/4 553 553 1/4 553 3/4 554 554 1/4 554 3/4 555 555 1/4 555 3/4 556 556 1/4 556 3/4 557 557 1/4 557 3/4 558 558 1/4 558 3/4 559 559 1/4 559 3/4 560 560 1/4 560 3/4 561 561 1/4 561 3/4 562 562 1/4 562 3/4 563 563 1/4 563 3/4 564 564 1/4 564 3/4 565 565 1/4 565 3/4 566 566 1/4 566 3/4 567 567 1/4 567 3/4 568 568 1/4 568 3/4 569 569 1/4 569 3/4 570 570 1/4 570 3/4 571 571 1/4 571 3/4 572 572 1/4 572 3/4 573 573 1/4 573 3/4 574 574 1/4 574 3/4 575 575 1/4 575 3/4 576 576 1/4 576 3/4 577 577 1/4 577 3/4 578 578 1/4 578 3/4 579 579 1/4 579 3/4 580 580 1/4 580 3/4 581 581 1/4 581 3/4 582 582 1/4 582 3/4 583 583 1/4 583 3/4 584 584 1/4 584 3/4 585 585 1/4 585 3/4 586 586 1/4 586 3/4 587 587 1/4 587 3/4 588 588 1/4 588 3/4 589 589 1/4 589 3/4 590 590 1/4 590 3/4 591 591 1/4 591 3/4 592 592 1/4 592 3/4 593 593 1/4 593 3/4 594 594 1/4 594 3/4 595 595 1/4 595 3/4 596 596 1/4 596 3/4 597 597 1/4 597 3/4 598 598 1/4 598 3/4 599 599 1/4 599 3/4 600 600 1/4 600 3/4 601 601 1/4 601 3/4 602 602 1/4 602 3/4 603 603 1/4 603 3/4 604 604 1/4 604 3/4 605 605 1/4 605 3/4 606 606 1/4 606 3/4 607 607 1/4 607 3/4 608 608 1/4 608 3/4 609 609 1/4 609 3/4 610 610 1/4 610 3/4 611 611 1/4 611 3/4 612 612 1/4 612 3/4 613 613 1/4 613 3/4 614 614 1/4 614 3/4 615 615 1/4 615 3/4 616 616 1/4 616 3/4 617 617 1/4 617 3/4 618 618 1/4 618 3/4 619 619 1/4 619 3/4 620 620 1/4 620 3/4 621 621 1/4 621 3/4 622 622 1/4 622 3/4 623 623 1/4 623 3/4 624 624 1/4 624 3/4 625 625 1/4 625 3/4 626 626 1/4 626 3/4 627 627 1/4 627 3/4 628 628 1/4 628 3/4 629 629 1/4 629 3/4 630 630 1/4