Genetics Unit Test: Practice Guide Answers

Part A: Complete the following questions:

1.) What is the <u>purpose</u> of a **punnett square**? What does it show?

All possible results of a genetic cross. The possible genotypes of the offspring. The alleles in the gametes of each parent.

What is a genotype? Genetic makeup Give an example of how it is written. GG

3.) What is a phenotype? Physical appearance Give an example of how it is written, green

4.)In a simple dominance problem involving green pea pods (green is the dominant color), what would be two possible genotypes for green pea pods? GG or Gg Why are they both green? the dominant trait is expressed phenotypically.

5.)In a simple dominance problem, what <u>parental genotypes</u> cross to produce a 3:1 <u>phenotypic</u> ratio of green pea pods to yellow pea pods? <u>Draw an example</u> to the right.

6.) Same punnett square as #5.
Phenotypes = 3 green: 1 yellow Genotypes = 1GG:2Gg:1gg



7.) What does homozygous mean? Two of the same alleles What are two other terms meaning the same thing? pure or purebred

8.) What does **heterozygous** mean? Alleles are different What is one other terms meaning the same thing? Hybrid

9.) What does the Law of Segregation say? When organisms reproduce, alleles separate from each other. Is there an equal chance of inheriting each allele from one parent? yes How about the other parent? each parent contributes 50%

<u>Draw an example</u> punnett square using the sex chromosomes (Female = XX, Male = XY).



140

10.) Snapdragon flowers exist in three color variations; white, red, and pink. What type of inheritance does this show? Incomplete dominance What would be the genotypes for each of the phenotypes described above? To the right, cross a Pink flower with a Pink flower, and give the genotypic and phenotypic ratios.

Red: RR, White: WW, Pink: RW

*

20

Genotypic Ratio: 1RR:2RW:1WW

Phenotypic Ratio: 1red:2pink:1white

Human Genetics Disorders Guide Answers

K Morrison

Human Genetics Disorders Guide Answers:

Whispering the Techniques of Language: An Mental Journey through **Human Genetics Disorders Guide Answers**

In a digitally-driven earth where monitors reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words frequently go unheard. Yet, located within the pages of **Human Genetics Disorders Guide Answers** a charming fictional value pulsating with fresh emotions, lies an exceptional quest waiting to be undertaken. Written by a talented wordsmith, that enchanting opus invites visitors on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the cloth of every word. Within the mental depths with this moving review, we shall embark upon a honest exploration of the book is core themes, dissect their captivating writing style, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

https://staging.conocer.cide.edu/data/scholarship/default.aspx/Gmc%20Tire%20Rotation%20Guide.pdf

Table of Contents Human Genetics Disorders Guide Answers

- 1. Understanding the eBook Human Genetics Disorders Guide Answers
 - The Rise of Digital Reading Human Genetics Disorders Guide Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Human Genetics Disorders Guide Answers
 - 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 Human Genetics Disorders Guide Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Human Genetics Disorders Guide Answers
 - Personalized Recommendations
 - Human Genetics Disorders Guide Answers User Reviews and Ratings

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

Human Genetics Disorders Guide Answers Introduction

In the digital age, access to information has become easier than ever before. The ability to download Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers has opened up a world of possibilities. Downloading Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers. 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 Human Genetics Disorders Guide Answers. 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 Human Genetics Disorders Guide Answers, 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 Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers Books

What is a Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers 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 Human Genetics **Disorders Guide Answers 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, IPEG, 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 Human Genetics Disorders Guide Answers 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 Human Genetics Disorders Guide Answers:

gmc tire rotation guide
god made me coloring pages for kids
golden guide for class 9 maths cbse
gmat study guide 2013
gmat study guide 2015
go diego go! fun kit
go math standards practice grade 2
gmc acadia navigation manual
gold clad manual guide
go math florida grade 4 homework answers
gmat exam questions study guide
gm360 motorola manual
god a boy and world war ii
gmc jimmy heater fuse
gmc service manual for 2015 7500

Human Genetics Disorders Guide Answers:

navigating the civil service exam process human resources - Oct 04 2022

web mar 10 2022 civil service test guides cs ny gov testing testguides cfm career mobility office careermobilityoffice cs ny gov cmo civil service electronic

civil service test prep csea afscme - Aug 14 2023

web prepare for your civil service examination with free civil service test preparation booklets online courses and civil service test preparation workshops e search for preparation materials for your civil service exam

csea work institute e learning center home - Jan 07 2023

web test your knowledge knowledge is power and it pays off join the fun with our weekly union quiz on the mycsea app first time winners not only get bragging rights but a

application for nys examinations government of new - Feb 25 2022

web aug 4 2021 csea recently was successful in gaining a win for motor vehicle license examiners myle s who previously had to deliver potentially upsetting news to people

office assistant 2 calculations new york state education - Mar 29 2022

web csea negotiating units 02 03 04 or 47 no fee is due because i am unemployed and primarily responsible for the support of a household i am receiving public assistance as

booklet 6 csea afscme - Mar 09 2023

web the csea examination preparation booklet series is designed to help members prepare for new york state and local government civil service examinations this booklet is

tuition benefits nys csea partnership - Jul 01 2022

web nov 27 2022 these questions test for the ability to organize and develop long range information technology plans that align the it organization with the agency mission and

test examination guide books csea unit 9200 local 860 - Feb 08 2023

web the csea work institute offers 32 test preparation booklets that are designed to help individuals prepare to take state and local government civil service exams booklet titles

civil service exam study guides delaware county ny - Apr 29 2022

web office of human resources go back the new york state education department office assistant 2 calculations grade 9 csea admin open to

csea examination preparation booklet series ams istanbul edu - Dec 26 2021

web established in 1979 the csea ebf is a non profit labor trust fund chaired by csea president mary e sullivan and managed by a seven member board of trustees the

covid 19 information page csea afscme - Oct 24 2021

web csea examination preparation booklet series 5 5 intensive test practice and drill in the basic skills and areas common to many civil service general aptitude or achievement

csea employee benefit fund - Nov 24 2021

web csea offers covid 19 vaccine webinars csea wants you to have all the facts regarding the new covid 19 vaccines so that you can make an informed decision for you and your

government of new york - May 11 2023

web we would like to show you a description here but the site won t allow us

state test guides government of new york - Apr 10 2023

web we would like to show you a description here but the site won t allow us

csea examination preparation booklet series copy - Sep 22 2021

web geleceĞİnİ sen seÇ İngilizceyi ve İngilizce konuşmayı öğrenerek hayatınızı değiştirin new york studio dil okulları 1998 den beri iş dünyasına verdiği yabancı dil eğitimleri ile öğrencilerinin hayatlarını değiştirip onları başarıya ulaştırıyor gelin sizi de nys de aldığınız dil eğitimleri ile

civil service test prep booklets csea afscme - Jul 13 2023

web download test prep booklets for free here you can find civil service test preparation booklets available for download not sure which booklet you need if you are looking for

study resources nysits - May 31 2022

web csea work institute civil service test prep services how to take a written test civil service examinations csea is the nys civil service employees association union

new york state workers csea afscme - Jan 27 2022

web csea examination preparation booklet series 3 3 asia educating and interacting with the public passbooks the information technology specialist iii passbook r prepares you

csea test booklets nysits - Nov 05 2022

web two main types of examinations open competitive open to all qualified individuals who meet the minimum qualifications for the job promotion transition open to all qualified individuals already employed by new york state civil service test prep workshops csea afscme - Aug 02 2022

web the tuition benefits program provides educational benefits to csea represented nys employees enabling them to achieve greater career mobility qualify for promotional

its series exam resources pef division 357 - Sep 03 2022

web sign up for one of the popular csea test preparation workshops and let an instructor guide you to success on your next civil service examination the work institute conducts live six hour test preparation workshops in general topic areas or exam specific topic areas for large state and local government exams

csea afscme local 1000 afl cio - Dec 06 2022

web aug 18 2017 csea test booklets posted on 2017 08 18 by sarah lauser i ve had a few questions about where to find the csea booklets the books are and always were

nysl geleceğini sen seç İstanbul dil okulları - Aug 22 2021

new york state department of civil service - Jun 12 2023

web new york state hiring for emergency limited placement help program watch on learn more about the help program examinations access civil service

the virtue of nationalism september 4 2018 edition open - Nov 05 2022

web sep 4 2018 the virtue of nationalism kindle edition by hazony yoram download it once and read it on your kindle device pc phones or tablets use features like

the virtue of nationalism amazon ca - Dec 06 2022

web jun 1 2020 pdf the virtue of nationalism by the israeli theologian and political philosopher yoram hazony is being hailed by some as an important statement of

the virtue of nationalism english edition - Feb 25 2022

web become synonymous with nationalism and an us versus them worldview while on the left it is seen as an impediment to acknowledging important ethnic religious or racial

the virtue of nationalism english edition uniport edu - Jan 27 2022

web sep 4 2018 the virtue of nationalism kindle edition by hazony yoram download it once and read it on your kindle device pc phones or tablets use features like

pdf book review the virtue of nationalism yoram - Sep 03 2022

web currently this the virtue of nationalism english edition as one of the most working sellers here will entirely be in the course of the best options to review why nationalism

the virtue of nationalism yoram hazony google books - Dec 26 2021

the virtue of nationalism hazony yoram amazon com au books - Oct 04 2022

web in the virtue of nationalism yoram hazony contends that a world of sovereign nations is the only option for those who care about personal and collective freedom he recounts

the virtue of nationalism wikipedia - Aug 14 2023

web sep 4 2018 in the virtue of nationalism yoram hazony contends that a world of sovereign nations is the only option for those who care about personal and collective

the virtue of nationalism english edition laozi pdf - Mar 29 2022

web the virtue of nationalism yoram hazony basic books 2018 nationalism a leading conservative thinker argues that a

nationalist order is the only realistic safeguard of the virtue of nationalism english edition - Nov 24 2021

the virtue of nationalism kindle edition amazon com - Aug 02 2022

web this book offers a detailed study of political argument in early eighteenth century england a time in which the politics of virtue were vigorously pursued and just as vigorously

the virtue of nationalism hazony yoram 9781541645370 - Feb 08 2023

web sep 4 2018 the virtue of nationalism by yoram hazony september 4 2018 basic books edition hardcover

thevirtueofnationalismenglishedition 2022 logs erpnext - Apr 29 2022

web the virtue of nationalism english edition is available in our digital library an online access to it is set as public so you can get it instantly our books collection saves in multiple

the virtue of nationalism by yoram hazony new york basic - Apr 10 2023

web oct 9 2018 two new books examine the recent global rise in nationalism and consider the proper role of the nation state in today s world jason willick reviews the virtue of

the virtue of nationalism yoram hazony google books - Jun 12 2023

web aug 26 2020 the virtue of nationalism by yoram hazony new york basic books 2018 285 pp 30 00 cloth

yoram hazony the virtue of nationalism - May 11 2023

web in the virtue of nationalism the philosopher yoram hazony offers an incisively original case for national sovereignty in an era when it is under attack from many sides he

the virtue of nationalism kindle edition amazon in - Jul 01 2022

web the virtue of nationalism english edition right here we have countless book the virtue of nationalism english edition and collections to check out we additionally pay for

the virtue of nationalism amazon com - Jul 13 2023

web sep 4 2018 nationalism is the issue of our age in the virtue of nationalism israeli philosopher yoram hazony makes the positive case for nationalism in an honest

the virtue of nationalism english edition richard l currier book - May 31 2022

web the politics of nationalism in modern iran ali m ansari 2012 09 24 the first full length study of iranian nationalism in nearly five decades this sophisticated and challenging

the virtue of nationalism kindle edition amazon co uk - Mar 09 2023

web in the virtue of nationalism yoram hazony contends that a world of sovereign nations is the only option for those who

care about personal and collective freedom he recounts

the virtue of nationalism kindle edition amazon com - Oct 24 2021

the virtue of nationalism and the nationalist revival review - Jan 07 2023

web in the virtue of nationalism the philosopher yoram hazony offers an incisively original case for national sovereignty in an era when it is under attack from many sides he

the five w s and one h method of decision making - Feb 15 2023

web jun 21 2016 step one write down the six basic questions in one column to structure your analysis of a given opportunity step two develop as many questions as possible related to the opportunity that start with each of the six pronouns write down all the questions in random order that come to mind using the six pronouns to stimulate your thinking chart of watson hicks and fitzhugh full pdf - Mar 16 2023

web chart of watson hicks and fitzhugh opinions of commissioners under the convention concluded september 8 1923 as extended by subsequent conventions between the united states and mexico apr 19 2020 astm year book nov 26 2020 world who s who in commerce and industry jan 29 2021 the bantam may 25 2023

chart of watson hicks and fitzhugh pdf copy support ortax - Dec 13 2022

web introduction chart of watson hicks and fitzhugh pdf copy dictionary of medical acronyms and abbreviations stanley jablonski 2004 09 this dictionary lists acronyms and abbreviations occurring with a reasonable frequency in the literature of medicine and the health care professions

chart of watson hicks and fitzhugh copy pantera adecco - May 18 2023

web chart of watson hicks and fitzhugh 3 3 work is an alphabetically arranged and cross indexed list of some 20 000 maryland families with references to the sources and locations of the records in which they appear in addition there is a research record guide arranged by county and type of record and it identifies all genealogical manuscripts watson hicks fitzhugh chart completed - Oct 23 2023

web watson hicks fitzhugh chart completed author albrecht kluckhohn from orientation sutd edu sg subject watson hicks fitzhugh chart completed keywords hicks fitzhugh watson completed chart created date 3 30 2023 9 43 09 pm chart of watson hicks and fitzhugh download only - Mar 04 2022

web chart of watson hicks and fitzhugh 3 3 catalogue of medical and veterinary zoology authors heritage books john doane was born in england in about 1590 he married ann and they had five children he died in eastham massachusetts 21 february 1684 5 descendants and relatives lived mainly in massachusetts north carolina florida and

five w s chart teaching resources teachers pay teachers tpt - Jun 07 2022

web the 5 w s anchor chart and worksheet scaffolds the 5 w s strategy good readers ask questions after reading a a book a short story or an article and identify who where and when first

chart of watson hicks and fitzhugh download only lfe - Oct 11 2022

web chart of watson hicks and fitzhugh 1 omb no chart of watson hicks and fitzhugh this works so fast law of attraction three magic words 1954 by u s andersen book of 1 thessalonians summary a complete animated overview the watsons by jane austen full audio book abraham winning the lottery

chart of watson hicks and fitzhugh pdf uniport edu - Apr 05 2022

web sep 1 2023 chart of watson hicks and fitzhugh 2 7 downloaded from uniport edu ng on september 1 2023 by guest risk variables leading to these diseases but provide a rationale for the need to begin prevention beginning in childhood the trajectories of the burden of cardio metabolic risk

watson hicks fitzhugh chart completed - Sep 22 2023

web watson hicks fitzhugh chart completed author wolfhard eisen from orientation sutd edu sg subject watson hicks fitzhugh chart completed keywords watson chart hicks fitzhugh completed created date $4\ 6\ 2023\ 10\ 20\ 30$ am

chart of watson hicks and fitzhugh pdf pdf support ortax - Sep 10 2022

web chart of watson hicks and fitzhugh pdf introduction chart of watson hicks and fitzhugh pdf pdf chart of watson hicks and fitzhugh copy dev clearwatersystems - May 06 2022

web chart of watson hicks and fitzhugh is available in our digital library an online entrance to it is set as public thus you can download it instantly our digital library saves in merged countries allowing you to get the most less latency epoch to download any of our books in the manner of this one merely said the chart of watson hicks and knowledge space a best practice site from tpmg consulting - Jan 14 2023

web mar 9 2020 $\,$ we would like to show you a description here but the site won t allow us pdf chart of watson hicks and fitzhugh - Apr 17 2023

web chart of watson hicks and fitzhugh index of patents issued from the united states patent and trademark office mar 07 2023 criminal law and procedure mar 15 2021 representing what is best in traditional legal education criminal law and procedure provides an overview and introduction to the definitions and elements

watson hicks fitzhugh chart completed pdf vla ramtech uri - Nov 12 2022

web oct 17 2023 watson hicks fitzhugh chart completed watson hicks fitzhugh chart completed 4 downloaded from vla ramtech uri edu on 2023 01 20 by guest youth and young adults by focusing on the social environmental advertising and marketing influences that encourage youth and young adults to initiate and sustain tobacco use chart of watson hicks and fitzhugh api calvertfoundation - Jul 20 2023

web chart of watson hicks and fitzhugh 3 3 artist and composer about the book in 1978 laurence juber was plucked from the london studio world by paul mccartney who asked him to play lead guitar in what was to become the final incarnation of paul s post beatles group wings he recorded and toured with the band for three years during which time

chart of watson hicks and fitzhugh 2023 cdn writermag - Aug 09 2022

web chart of watson hicks and fitzhugh downloaded from cdn writermag com by guest rowan elaine noaa week dalton watson vols for 1871 76 1913 14 include an extra number the christmas bookseller separately paged and not included in the consecutive numbering of the regular series doane cromartie hendry henry lamb of north

watson hicks fitzhugh chart completed 2022 ai classmonitor - Aug 21 2023

web watson hicks fitzhugh chart completed 3 3 human impact on landforms and land forming processes is profound due to various driving forces including use of fire extinction of fauna development of agriculture urbanisation and globalisation and new methods of harnessing energy the book explores the ways in which future climate watson hicks fitzhugh chart completed - Jun 19 2023

web watson hicks fitzhugh chart completed author august blatt from orientation sutd edu sg subject watson hicks fitzhugh chart completed keywords hicks fitzhugh chart watson completed created date 4 21 2023 9 21 22 am chart of watson hicks and fitzhugh pdf ws 1 ps2pdf - Jul 08 2022

web chart of watson hicks and fitzhugh 1 chart of watson hicks and fitzhugh doane cromartie hendry henry lamb of north carolina william lamb thomas edward lamb albert j allen thomas john carroll and isabella catherine lamb lamb allen w hicks and mary jane margaret lamb and related families american machinist automated