

2023 FINAL EXAM

GEOGRAPHY P.1 MEMO

QUESTIONS

1.1

Choose the answer and write only the letter (A-D) next to the question numbers (1.1 to 1.1.5) in the ANSWER BOOK, e.g. 1.1.3 D.

Refer to the sketch below to answer QUESTIONS 1.1.1 to 1.1.5.



LIVE



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

Refer to the sketch below of the drainage basin to answer QUESTIONS 2.1.4 to 2.1.6.



2.1.4 The sketch above represents a ... drainage pattern.



Matrics 2013 Geography Paper1 September Memorandum

Guillaume Favre



Matrics 2013 Geography Paper1 September Memorandum:

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Natureis Adventure: **Matrics 2013 Geography Paper1 September Memorandum** . This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

<https://staging.conocer.cide.edu/book/scholarship/index.jsp/Junior%20Classics%20Volume%206%20Old%20Fashioned%20Ta.pdf>

Table of Contents Matrics 2013 Geography Paper1 September Memorandum

1. Understanding the eBook Matrics 2013 Geography Paper1 September Memorandum
 - The Rise of Digital Reading Matrics 2013 Geography Paper1 September Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Matrics 2013 Geography Paper1 September Memorandum
 - 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 Matrics 2013 Geography Paper1 September Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matrics 2013 Geography Paper1 September Memorandum
 - Personalized Recommendations
 - Matrics 2013 Geography Paper1 September Memorandum User Reviews and Ratings
 - Matrics 2013 Geography Paper1 September Memorandum and Bestseller Lists
5. Accessing Matrics 2013 Geography Paper1 September Memorandum Free and Paid eBooks
 - Matrics 2013 Geography Paper1 September Memorandum Public Domain eBooks
 - Matrics 2013 Geography Paper1 September Memorandum eBook Subscription Services
 - Matrics 2013 Geography Paper1 September Memorandum Budget-Friendly Options

6. Navigating Matrics 2013 Geography Paper1 September Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Matrics 2013 Geography Paper1 September Memorandum Compatibility with Devices
 - Matrics 2013 Geography Paper1 September Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matrics 2013 Geography Paper1 September Memorandum
 - Highlighting and Note-Taking Matrics 2013 Geography Paper1 September Memorandum
 - Interactive Elements Matrics 2013 Geography Paper1 September Memorandum
8. Staying Engaged with Matrics 2013 Geography Paper1 September Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matrics 2013 Geography Paper1 September Memorandum
9. Balancing eBooks and Physical Books Matrics 2013 Geography Paper1 September Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matrics 2013 Geography Paper1 September Memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matrics 2013 Geography Paper1 September Memorandum
 - Setting Reading Goals Matrics 2013 Geography Paper1 September Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matrics 2013 Geography Paper1 September Memorandum
 - Fact-Checking eBook Content of Matrics 2013 Geography Paper1 September Memorandum
 - 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

Matrics 2013 Geography Paper1 September Memorandum Introduction

In the digital age, access to information has become easier than ever before. The ability to download Matrics 2013 Geography Paper1 September Memorandum 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 Matrics 2013 Geography Paper1 September Memorandum has opened up a world of possibilities. Downloading Matrics 2013 Geography Paper1 September Memorandum 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 Matrics 2013 Geography Paper1 September Memorandum 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 Matrics 2013 Geography Paper1 September Memorandum. 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 Matrics 2013 Geography Paper1 September Memorandum. 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 Matrics 2013 Geography Paper1 September Memorandum, 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 Matrics 2013 Geography Paper1 September Memorandum 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 Matrics 2013 Geography Paper1 September Memorandum 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 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 the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Matrics 2013 Geography Paper1 September Memorandum is one of the best book in our library for free trial. We provide copy of Matrics 2013 Geography Paper1 September Memorandum in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Matrics 2013 Geography Paper1 September Memorandum. Where to download Matrics 2013 Geography Paper1 September Memorandum online for free? Are you looking for Matrics 2013 Geography Paper1 September Memorandum PDF? This is definitely going to save you time and cash in something you should think about.

Find Matrics 2013 Geography Paper1 September Memorandum :

~~junior classics volume 6 old fashioned ta~~

~~jumping beany~~

~~just south of utopia score only~~

just jeeps and such

~~julio cortazar la isla final~~

~~just william 2 ed~~

~~just-in-time self test success through assessment and implementation~~

just enough business french

junior greats series 9 student anthology

julie krone unstoppable jockey

jumping to heaven stories about refugee children

just grace

julio galan

just one justices the role of justice at the heart of catholic higher education

julie walters seriously funny the unauthorised biography

Matrics 2013 Geography Paper1 September Memorandum :

forced feminization monsterp63 stories art - Aug 08 2022

web forced feminization monsterp63 stories art tag forced feminization when a guy is not a ts or a tv and is forced to dress like a woman or even body modifications all of this not explicitly wanted by the subject

force feminize your husband lady alexa - May 17 2023

web aug 5 2018 home sissy tributes forced feminization stories about me contact me force feminize your husband 5th august 2018 by lady alexa 71 comments the title is a call to action ladies force feminize your husband now in recent months i ve been receiving far more correspondence than in the past from women like me

4 mtf transitions you ll hardly believe are real bust bunny - Mar 03 2022

web the mtf transition is a journey different for each individual but all trans women share the anticipation of loving and feeling confident in their bodies the three commonly used methods for mtf transition are gender affirmation

sissy castration sissy rides - Sep 09 2022

web so how exactly does a sissy get on castration medication as well as other feminizing its type of hypno its more hypnosis your assignments await a training guide to be a sissy first time sissy the becoming of a sissy feminization hormones

forced femme stories helen s beauty shop - Jul 07 2022

web i had to laugh to myself how many times had he confided exactly this fantasy to me this persistent obsession with forced public feminization how often had we made passionate love after running through some fantasy scenario at home of course he wanted it often he admitted as much

my male to female transition how estrogen changed my life - Mar 15 2023

web feb 2 2016 to my surprise i found that as my body began to change on hormones so did my sexual orientation in march of 2015 i made the huge step to go on hormones and start the process of transitioning from male to female through the use of

hormone replacement therapy otherwise known as hrt

stories by karen elizabeth l page 1 storysite - Apr 04 2022

web jimmy a quiet boy didn't feel wanted by his father he disliked sports and couldn't care less about his dad's more masculine interests his cousin jamie nearly his identical twin was seemingly stuck in her tomboy phase showing disdain for the more feminine lifestyle and dress that her mother wanted her to pursue

the estrogen experiment 4 months on cross sex hormones - Aug 20 2023

web 5 min read mar 31 2017 9 in early december of 2016 i began an experiment i wanted to find out whether transitioning from male to female would cure my depression with support from my

man documents incredible transformation into woman in 17 - Oct 10 2022

web nov 16 2017 advertisement ohio student who uses an imgur username selgal has shared intimate photos of her transition from a man into a woman and the eye opening images provide additional information about what happens to a body during hormone replacement therapy hrt selgal has documented 17 months almost 1.5 years on this

ravenwood school for sissies a collection of short stories - Feb 14 2023

web apr 4 2013 aimee allison crystal summers and domina dixon team up for a collection of three forced feminization stories related to monica ravenwood's school for sissies this collection includes always read the fine print by aimee allison thomas quinn wanted a forced feminization fantasy experience

the chinese transgender individuals forced to take treatment into - Jan 13 2023

web the chinese transgender individuals forced to take treatment into their own hands huiming not photographed was in her early twenties when she decided to remove her male genitalia but living in china her options were limited for one gender affirming surgery in the country is only available to individuals diagnosed as mentally ill which

forcedfemstorys hobbyist writer deviantart - May 05 2022

web this story you are about to read unlike my others is true the reason i write and know about forced feminization is because of what happened i was ten years old and my mum got a call from a parent who lived on our street who asked if i wanted to come to their house and play with their daughter i thought that girl poppy was cool so i

never wanted to be a girl chp 10 bigcloset topshelf - Jun 18 2023

web may 23 2019 never wanted to be a girl chp 4 rebecca chilly and dorothy all meet at rebecca's place they didn't want to jeopardize or compromise their covers so far things were going well with the investigation chilly had been accepted at the prison as the replacement guard

forcedfem forcedfeminization stories wattpad - Nov 11 2022

web read the most popular forcedfem forcedfeminization stories on wattpad the world's largest social storytelling platform

rachel ann cooper s page 1 storysite - Sep 21 2023

web he would and did as she offered him more little enticements over time sucked in deeper and deeper until there was no escape from a life in silks he finds happiness at last as the love slave of femininity itself age college age 19 26 categories crossdressing tv keywords hormones part 1

my mother forced me to transition r detrans reddit - Jul 19 2023

web oct 29 2020 my mother gaslighted me into believing i was transgender she always wanted a girl and couldn t cope with the fact i m gay so she thought transitioning me was a perfect solution she picked a new name for me laís bought me new clothes put me on hormone blockers and we moved to a neighbour city where no one knew about my past

the feminization boudoir on apple podcasts - Jun 06 2022

web oct 9 2023 most real enjoyable exciting forced feminization podcast kylie was forced feminized as a college student and writes what he knows real doms are frequent guests always worth hearing free substantial samples of audio books fun interviews always fun

erzwungene feminisierung geschichten transfemme - Feb 02 2022

web erzwungene feminisierung mit transfemme sind echte nicht fiktive erzwungene feminisierungsgeschichten namen wurden geändert und einige details zum schutz von identitäten seit über zwei jahrzehnten hören wir wie unsere kunden feminisierungsgeschichten erzwungen haben wir befürworten zwar nicht jemandem

hormones feminising transhub - Dec 12 2022

web hormonal gender affirmation is an important part of many trans and gender diverse people s lives feminising hormones are typically used by trans people who were presumed male at birth including women and non binary people there are several hormones that come under the category of feminising hormones

sissy hypnosis the trans industry s golden goose - Apr 16 2023

web may 12 2021 sissy porn s central conceit is that the women it depicts are in fact former men who have been feminized sissified by being forced to wear makeup wear lingerie and perform acts of sexual submission

free payroll templates business org - Jul 27 2022

web mar 7 2023 smartsheet offers several customizable free payroll templates including an all in one payroll calculator and registrar you can also use smartsheet to find professional payroll summary report templates and payroll ledger templates you can also print or export payroll templates as pdfs smartsheet starts with a 30 day free trial but to

payroll calculator free employee payroll template for excel - Apr 23 2022

web dec 28 2022 this payroll template contains several worksheets each of which are intended for performing the specific function the first worksheet is the employee register intended for storing detailed information about each of your employees

the payroll calculator worksheet helps you with calculating the employee payroll based upon

10 best hr payroll templates in excel by exceldatapro - Jul 07 2023

web jan 7 2018 payroll template with attendance payroll excel template with attendance is a fully automated template in excel openoffice calc and google sheets to manage the complete payroll

free excel payroll template easy to use ready in minutes - Aug 28 2022

web the free payroll template excel has inputs as well for salary increases year on year so you can rest assured that your analysis will be accurate and reflective free payroll template excel how to get data analysis in excel a step by step guide oct 2 2023 return on invested capital after taxes metric explained oct 2 2023

10 free payroll templates in excel and clickup - Aug 08 2023

web sep 19 2023 9 excel timesheet for payroll template via microsoft 365 timesheet templates are a great way to keep track of the amount of time an employee spends performing duties for the job the excel timesheet for payroll template from microsoft 365 is a simple to use worksheet designed for use in microsoft excel

free payroll templates tips what to include fit small - Feb 02 2023

web dec 17 2021 free payroll templates created through spreadsheet programs like microsoft excel and google sheets can help you save time especially if the templates use formulas to automate calculations a payroll expense analysis template is good for any company that s undergone at least a month of payroll expenses it provides key metrics

8 metrics and kpis you need to track in your payroll metrics - Jun 25 2022

web sep 7 2022 here s an example of a possible payroll metrics dashboard in a databox template the harvest time report dashboard tracks metrics related to billable and non billable hours in a single visualization top kpis and

download salary sheet excel template exceldatapro - May 25 2022

web salary sheet is a ready to use template in excel google sheets openoffice calc and apple numbers that helps you easily calculate the salary

payroll template excel payroll template free payroll templates - Feb 19 2022

web the excel payroll template includes everything you will need to successfully track the payroll of all your employees free payroll templates include a comprehensive list of headings and sections to help you successfully manage your payroll the payroll template gives you the ability to make a headcount summary

payroll templates microsoft create - Sep 09 2023

web create from scratch make payday go more smoothly with easy to use payroll templates getting people paid on time is a big job but you re more than up to the task with the help of these payroll templates these excel templates can be adjusted to reflect hourly rates and overtime salaries taxes and withholdings that apply to your business

[free payroll template 2023 forbes advisor](#) - Apr 04 2023

web jan 23 2023 format payroll templates come in a variety of formats such as microsoft excel and word google sheets and pdf opt for the format that you and your team are most comfortable with

[15 free payroll templates smartsheet](#) - Oct 10 2023

web jul 18 2017 managing work budget accounting 15 free payroll templates get free smartsheet templates by andy marker
july 18 2017 small business owners and managers have a few options when it comes to managing payroll

how to create payroll in excel step by step free template - Mar 23 2022

web jul 5 2023 step 1 open a new excel spreadsheet the first step in making payroll in excel is to open a new excel sheet for this go to the search box at the bottom left end of the windows desktop screen type excel click the excel icon to open a new blank excel spreadsheet

[payroll template free employee payroll template for excel](#) - May 05 2023

web apr 11 2022 employee payroll template download a free employee payroll register spreadsheet for excel updated 4 11 2022 as a new employer i set out to create a payroll calculator but in the process learned that there were too many laws and regulations associated with payroll to risk using a spreadsheet for calculating payroll

40 free payroll report templates excel word  **templatelab** - Jun 06 2023

web business finance payroll report templates 40 free payroll report templates excel word a payroll report is an important document in the running of a company it provides crucial information about its human resource which can be used to keep labor costs in check auditors use payroll reports when performing audits or preparing tax reports

[payroll analysis payroll calculation template](#) - Oct 30 2022

web download related templates payroll planning template sample payroll register price modelling and break even analysis model present value analysis calculator payroll calculator use this payroll analysis template to accurately calculate payroll costs it s a great tool to keep payroll costs efficient and on track

how to do payroll in excel 7 simple steps plus step by step - Mar 03 2023

web feb 2 2023 figuring out how to do payroll using an excel template can take some time first you need to take a look at the template and evaluate your business needs a standardized template should have tabs for each month with links to formulas that calculate employee taxes deductions and pay

40 free payroll templates calculators  **templatelab** - Sep 28 2022

web apr 8 2018 types of payroll templates before you make an excel payroll template you need to know what template to make there are different types of templates you can make for your business no matter what type you choose it should help you organize your payroll system you need this so you can give wages to employees on time

6 best microsoft excel templates for payroll management guiding tech - Nov 30 2022

web jun 13 2020 1 employee payroll calculator this one comes from the house of microsoft the payroll management template spreads across three worksheets there is one each for employee wage and taxes

free payroll templates clockify - Jan 01 2023

web 14 free payroll templates you can use to manage payroll from calculating payroll to keeping track of your budget these customizable templates are designed to help you streamline your company s payroll process get templates why

pvc 1070 westlake - Jun 12 2023

web k value din 53726 57 bulk density lbs ft³ ppvc 24 33 0 gms cm³ 05 28 volatiles ppvc 22 0 35 syntron contamination particles 100 gms ppvc 35 50 residual vinyl

pvc polimerler spidagroüp - Mar 09 2023

web din 53726 sulphate ash wt max 0 05 din 53568 2 volatiles wt max 0 2 iso r 1269 bulk density g lit 520 600 din 53466 screen analysis 63 um wt 90

e pvc emulsion paste grade - Feb 08 2023

web e6834 iso din grade 67 69 iso 1628 2 din 53726 k value 2 iso 565 din 53724 sieve analysis 63µ 0 3 iso 1269 din 7764 2 volatile matter 2 2 iso 6427 din

din 53726 1983 09 beuth de - Sep 03 2022

web testing of plastics determination of viscosity number and k value of vinyl chloride vc polymers german title prüfung von kunststoffen bestimmung der viskositätszahl und

lg pvc ls100h eymenpetrokimya com tr - Aug 02 2022

web k value din 53726 66 particle size distribution astm d1921 45 mesh max 0 5 bulk density astm d 1895 90 g 0 595 0 025 real density astm d 792 23 1 4 heat

7226 bazı kanunlarda değişiklik yapılmasına dair kanun - Nov 24 2021

web 1 1 bu kanunun a 2 nci 15 inci ve 29 uncu maddeleri 1 1 2020 tarihinden itibaren uygulanmak üzere yayımı tarihinde b 16 ncı ve 17 nci maddeleri 31 12 2019 tarihinden

din 53726 determination of viscosity number k value of - Oct 04 2022

web din 53726 determination of viscosity number k value of vinyl chloride vc polymers testing o din 53726 1983 edition superseded see the following din en

cpvc resin chlorinated pvc hc 77 - Jul 13 2023

web k value 58 2 din 53726 chlorine content 67 3 0 5 oxygen flask bulk density g ml 0 57 0 05 astm d 1895 volatiles max 0 3 astm d 3030 glass transition

tÜrmob bazı alacakların yeniden yapılandırılmasına ilişkin - Feb 25 2022

web tÜrmob sitede yer alan bilgilerin tam ve eksiksiz olması için gereken tüm çabayı göstermektedir ancak tüm belge doküman ve içeriğin hiçbir hata içermediğini garanti

name pvc s6558 product description applications property - Dec 06 2022

web k value 65 din 53726 sulphate ash wt max 0 05 din 53568 2 volatiles wt max 0 2 iso r 1269 bulk density gr lit 600 din 53466 screen analysis residue on sieve 63

din 53726 1978 03 beuth de - Nov 05 2022

web din 53726 1978 03 testing of plastics determination of viscosity number and k value of polyvinyl chloride vc polymers in dilute solution inform now

technical data sheet pvc 500 - May 11 2023

web k value din 53726 70 1 inherent viscosity astm d 1243 0 96 1 02 bulk density g l astm d 1895 method a 450 min plasticizer absorption phr astm d 3367 30 min particle

din 53726 1961 06 beuth de - Oct 24 2021

web din 53726 1961 06 testing of plastics determination of viscosity number and k value of polyvinylchloride resins in solution inform now

wo 2009 050541 composition resistant to - Apr 29 2022

web jul 11 2007 a thermoplastic compound material with resistance to chlorinated compounds comprising a pvc matrix a plasticizer agent a stabilizer agent and an antioxidant agent

tÜrmob 7326 sayılı kanun İç genelgesi yayımlandı - Dec 26 2021

web tÜrmob sitede yer alan bilgilerin tam ve eksiksiz olması için gereken tüm çabayı göstermektedir ancak tüm belge doküman ve içeriğin hiçbir hata içermediğini garanti

bazı kanunlarda deĞİŞİklık yapılmasına daİr kanun - Jan 27 2022

web bazı kanunlarda deĞİŞİklık yapılmasına daİr kanun kanun numarası 7226 kabul tarihi 25 3 2020 yayımlandığı resmî gazete tarih 26 3 2020 sayı 31080

tÜrmob bazı alacakların yeniden - Sep 22 2021

web tÜrmob sitede yer alan bilgilerin tam ve eksiksiz olması için gereken tüm çabayı göstermektedir ancak tüm belge doküman ve içeriğin hiçbir hata içermediğini garanti

s 6558 pvc homo bandar imam petrochemical tecves - Mar 29 2022

web din 53726 volatiles 0 2 maximum value iso 1269 disclaimer the information presented on this datasheet was acquired by tecves from the producer of the material tecves

din 53726 testing of plastics determination of viscosity - Apr 10 2023

web din 53726 1983 edition september 1983 testing of plastics determination of viscosity number and k value of vinyl chloride vc polymers there is no abstract currently

norma técnica din 53726 arena técnica - May 31 2022

web technical standard din 53726 testing of plastics determination of viscosity number and k value of vinyl chloride vc polymers entity din code din 53726 subject plastics in

for the evaluation of result the methods precision statement - Jan 07 2023

web din 53726 59 61 k value din 53726 64 66 k value din 53726 69 71 viscosity no din 53726 85 92 cm³ gr viscosity no din 53726 101 109 cm³ gr viscosity no din 53726

din 53726 testing of plastics determination of viscosity - Aug 14 2023

web din 53726 testing of plastics determination of viscosity number and k value of vinyl chloride vc polymers

se 650a albara com tr - Jul 01 2022

web 55 5 56 8 din 53726 56 3 polyvinyl chloride se 650a appearance white free flow powder applications properties specification range test method