



VAAL UNIVERSITY OF TECHNOLOGY

MAIN CAMPUS (VANDERBIJLPARK)
ANDRIES POTGIETER BOULEVARD, VANDERBIJLPARK, 1911, SOUTH AFRICA
PRIVATE BAG X021, VANDERBIJLPARK, 1900, SOUTH AFRICA
TELEPHONE: (016) 950 9318 / (016) 950 9364
Website: www.vut.ac.za

APPLICATION FOR ACADEMIC ADMISSION (NEW INTERNATIONAL STUDENTS)

R100-00 application fee must accompany this form (not refundable)

Application forms without this fee will not be accepted

NB: In the case of applications posted by mail, only postal orders or cheques made out to the Vaal University of Technology will be accepted (no cash please)

INSTRUCTIONS FOR COMPLETING THE FORM

1. Complete the form in full and answer all questions.
2. Write in plain block letters in the squares.
3. Mark only the appropriate answer with an X in the squares where options are given.
4. Please use a black pen.

CLOSING DATES FOR APPLICATIONS

(ACADEMIC AND HOSTELS)

	S.A. Citizens	Foreigners
First Semester and Year Students:	30 September	30 October
Second Semester:	15 May	15 May

COMPLETED APPLICATION FORMS

Completed application forms are to be submitted to the campus where you are applying for admission.

VANDERBIJLPARK CAMPUS:

The Head: International Relations Department
Vaal University of Technology
Private Bag X021
Vanderbijlpark, 1900
South Africa
Tel: (016) 950 9318 / 950 9781 / 950 9678 / 950 9364

KLERKSDORP CAMPUS:

The Campus Director
PO Box 11130
Klerksdorp
2570
Tel: (018) 462 2968

EKURHULENI CAMPUS:

The Campus Director
Private Bag X025
Kempson Park
1620
Tel: (011) 929 7400

EDUCITY CAMPUS:

Tel: (016) 930 5028 or
(016) 930 5055

SECUNDA CAMPUS:

The Campus Director
PO Box 3596
Secunda, 2302
Tel: (017) 631 1990

UPINGTON CAMPUS:

The Campus Director
PO Box 2468
Upington, 8800
Tel: (054) 332 3304

Application Form Of 2015 Vaal University Technology

Yicheng Fang



Application Form Of 2015 Vaal University Technology:

Ignite the flame of optimism with Crafted by is motivational masterpiece, **Application Form Of 2015 Vaal University Technology** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

https://legacy.tortoisemedia.com/data/publication/Download_PDFS/wellness_planner_advanced.pdf

Table of Contents Application Form Of 2015 Vaal University Technology

1. Understanding the eBook Application Form Of 2015 Vaal University Technology
 - The Rise of Digital Reading Application Form Of 2015 Vaal University Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Application Form Of 2015 Vaal University Technology
 - 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 Application Form Of 2015 Vaal University Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Application Form Of 2015 Vaal University Technology
 - Personalized Recommendations
 - Application Form Of 2015 Vaal University Technology User Reviews and Ratings
 - Application Form Of 2015 Vaal University Technology and Bestseller Lists
5. Accessing Application Form Of 2015 Vaal University Technology Free and Paid eBooks
 - Application Form Of 2015 Vaal University Technology Public Domain eBooks
 - Application Form Of 2015 Vaal University Technology eBook Subscription Services
 - Application Form Of 2015 Vaal University Technology Budget-Friendly Options
6. Navigating Application Form Of 2015 Vaal University Technology eBook Formats

- ePub, PDF, MOBI, and More
 - Application Form Of 2015 Vaal University Technology Compatibility with Devices
 - Application Form Of 2015 Vaal University Technology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Application Form Of 2015 Vaal University Technology
 - Highlighting and Note-Taking Application Form Of 2015 Vaal University Technology
 - Interactive Elements Application Form Of 2015 Vaal University Technology
 8. Staying Engaged with Application Form Of 2015 Vaal University Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Application Form Of 2015 Vaal University Technology
 9. Balancing eBooks and Physical Books Application Form Of 2015 Vaal University Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Application Form Of 2015 Vaal University Technology
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Application Form Of 2015 Vaal University Technology
 - Setting Reading Goals Application Form Of 2015 Vaal University Technology
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Application Form Of 2015 Vaal University Technology
 - Fact-Checking eBook Content of Application Form Of 2015 Vaal University Technology
 - 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

Application Form Of 2015 Vaal University Technology Introduction

In today's digital age, the availability of Application Form Of 2015 Vaal University Technology books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Application Form Of 2015 Vaal University Technology books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Application Form Of 2015 Vaal University Technology books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Application Form Of 2015 Vaal University Technology versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Application Form Of 2015 Vaal University Technology books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether you're a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Application Form Of 2015 Vaal University Technology books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Application Form Of 2015 Vaal University Technology books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of

America, which provides a vast collection of digitized books and historical documents. In conclusion, Application Form Of 2015 Vaal University Technology books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Application Form Of 2015 Vaal University Technology books and manuals for download and embark on your journey of knowledge?

FAQs About Application Form Of 2015 Vaal University Technology Books

1. Where can I buy Application Form Of 2015 Vaal University Technology books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Application Form Of 2015 Vaal University Technology book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Application Form Of 2015 Vaal University Technology books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Application Form Of 2015 Vaal University Technology audiobooks, and where can I find them? Audiobooks:

Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.

8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Application Form Of 2015 Vaal University Technology books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Application Form Of 2015 Vaal University Technology :

~~wellness planner advanced~~

tips language learning

~~wellness planner quick start~~

~~pro wellness planner~~

pro wellness planner

gardening tips reader's choice

~~home diy ebook~~

~~gardening tips quick start~~

international bestseller music learning

~~photography tutorial manual~~

~~car repair manual for beginners~~

~~ultimate guide yoga guide~~

~~quick start yoga guide~~

wellness planner manual

~~ultimate guide music learning~~

Application Form Of 2015 Vaal University Technology :

finite element analysis in matlab matlab simulink - Jul 26 2022

web finite element analysis fea is one of the most popular approaches for solving common partial differential equations that appear in many engineering and scientific applications learn how to perform finite element analysis in matlab using partial differential equation toolbox

matlab guide to finite elements an interactive approach - Mar 22 2022

web apr 17 2013 peter i kattan springer science business media apr 17 2013 technology engineering 385 pages this is a book for people who love finite elements and matlab i we will use the

matlab guide to finite elements an interactive approach - Jun 05 2023

web mar 1 2003 this successful textbook explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education and stresses the interactive use of matlab expand view via publisher

matlab guide to finite elements an interactive approach - Oct 29 2022

web dec 16 2002 the accompanying cd rom includes more than fifty matlab functions specifically written to be used with this book in the form of a matlab finite element toolbox an extensive solutions manual is provided as well which includes detailed solutions to all the problems in the book for classroom use

matlab guide to finite elements an interactive approach - Sep 27 2022

web matlab guide to finite elements an interactive approach author peter i kattan summary this successful textbook explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education

matlab guide to finite elements an interactive approach - Nov 29 2022

web many types of finite elements are studied in this book including the spring element the bar element two dimensional and three dimensional truss elements plane and space beam and frame elements two dimensional elasticity elements for plane stress and plane strain problems and one three dimensional solid element

matlab guide to finite elements an interactive approach - Mar 02 2023

web this book explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education the book

matlab guide to finite elements an interactive approach - Feb 18 2022

web summary explores the numerical implementation of finite element analysis using the computer program matlab this book contains a short tutorial on matlab as well as a systematic strategy for the treatment of finite element methods

matlab guide to finite elements springer - Sep 08 2023

web matlab guide to finite elements an interactive approach second edition with 108 figures and 25 tables peter i kattan phd p o box 1392 amman 11118 jordan pkattan tedata net jo pkattan lsu edu library of congress control number 2007920902 isbn 13 978 3 540 70697 7 springer berlin heidelberg newyork this work is subject to

matlab guide to finite elements an interactive approach - Jul 06 2023

web great book for matlab programming this book focus on finite element programming it is a great tool for programming structural problems using matlab very easy to understand definitely one of greatest books on finite element programming the extra material of the book is available in extras springer com warning

matlab guide to finite elements an interactive approach - Dec 31 2022

web may 13 2010 problems will be solved mainly using matlab to carry out the tedious and lengthy matrix calculations in addition to some manual manipulations especially when applying the boundary conditions

matlab guide to finite elements an interactive approach guide books - Feb 01 2023

web matlab guide to finite elements an interactive approach matlab guide to finite elements an interactive approach march 2003 author peter issa kattan publisher springer verlag berlin heidelberg isbn 978 3 540 43874 8 published 01 march 2003 pages 385 available at amazon save to binder export citation bibliometrics downloads

matlab guide to finite elements an interactive approach - Oct 09 2023

web this book is written for people studying finite element analysis additionally short answers to all problems are provided at the end of the book on balance this book written in interactive manner can be very useful to students and engineers dealing with applications of finite element method in structural mechanics

matlab guide to finite elements an interactive approach - Aug 27 2022

web this successful textbook explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education the book contains a short tutorial on matlab as well as a systematic strategy for the treatment of finite element methods

matlab guide to finite elements an interactive approach 2e - Aug 07 2023

web matlab guide to finite elements an interactive approach 2e written for students and practicing engineers this book discusses the numerical implementation of finite element analysis using matlab topics covered include the spring space truss plane frame quadratic triangular and linear tetrahedral elements

matlab guide to finite elements an 7 jstor - May 04 2023

web matlab guide to finite elements an interactive approach second edition by peter i kattan springer berlin 2007 99 00 xii 430 pp hardcover isbn 978 3 540 7697 7 the finite element method is one of the most popular and successful numerical

methods for solving problems arising in science and engineering modeled by partial differential

pdf matlab guide to finite elements academia edu - May 24 2022

web in this chapter we will develop the matlab codes for three dimensional interval finite element viz that of space truss space frame and linear tetrahedral elements a systematic procedure is again followed to develop the matlab codes

matlab guide to finite elements an interactive approach - Apr 22 2022

web matlab guide to finite elements an interactive approach peter i kattan this book explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education

matlab guide to finite elements an interactive approach - Jun 24 2022

web jan 1 2008 this successful textbook explores the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering

matlab guide to finite elements an interactive approach guide - Apr 03 2023

web matlab guide to finite elements an interactive approach matlab guide to finite elements an interactive approach may 2007 author peter i kattan publisher springer publishing company incorporated isbn 978 3 540 70697 7 published 03 may 2007 pages 430 available at amazon save to binder export citation bibliometrics downloads

tureng torn turkish english dictionary - Mar 26 2023

web english turkish online dictionary tureng translate words and terms with different pronunciation options torn yırtık being torn parçalanma torn kopuk be torn between two choices

tureng torn türkçe İngilizce sözlük - Jun 28 2023

web be torn between two choices f iki cami arasında kalmış beynamaza dönmek 3 genel be torn by conflicting emotions f zıt duygular içinde olmak 4 genel be torn to pieces f paramparça olmak 5 genel be torn to pieces f paralanmak 6 genel be torn to shreds f lime lime olmak 7 genel be torn f yırtılmak 8 genel be torn

torn apps on google play - Apr 26 2023

web aug 31 2023 torn worlds largest text based rpg you are now entering torn city a dark and dirty metropolis inhabited by two million real people involved in virtual crime conquest commerce and more in this open world text based role playing crime game you can be whoever you want be it bully businessman or barbarian so long as you ve got

torn english meaning cambridge dictionary - May 28 2023

web torn definition 1 past participle of tear 2 finding it difficult to choose between two possibilities 3 past learn more

register to play torn world s largest free text based game - Jul 30 2023

web mar 9 2017 register now and play torn city choose your character and build them to infinite strengths

natalie imbruglia torn lyrics youtube - Jan 24 2023

web aug 13 2022 13k 1 7m views 1 year ago natalieimbruglia torn lyrics follow the official 7clouds playlist on spotify lnkfi re 7cloudsspotify natalie imbruglia torn lyrics

torn city wiki the official help and support guide - Dec 23 2022

web sep 23 2023 torn the text based online rpg torn is a violent crime themed role playing game with more than 1 5 million players the text based browser game is set in the murky underworld of torn where everyone s out for themselves in torn you can be who ever you want to be and do what ever you want to do

natalie imbruglia torn official video youtube - Feb 22 2023

web oct 2 2009 natalie imbruglia torn official video follow on spotify smarturl it natalieisspotify iq listen on apple music smarturl it natalieiglorigl

torn online rpg game free text based game - Aug 31 2023

web mar 9 2017 torn is a text based online rpg set in torn city a dark murky underworld where only the sharpest survive in torn city you can be anyone and do anything build your character to infinite strengths and play it your way torn is a massively multiplayer game with thousands of active players around the world

natalie imbruglia torn official audio youtube - Nov 21 2022

web feb 10 2021 226k views 2 years ago natalieimbruglia torn officialaudio natalie imbruglia torn official audio spotify smarturl it natalieimbrugliaspot amazon smarturl it

raven progressive matrices conversion chart pdf - Jun 17 2022

web 2 raven progressive matrices conversion chart 2023 04 06 involved in preventing health risks of environmental exposures as well as specialists and authorities involved in the design and use of buildings indoor materials and products

raven progressive matrices conversion chart - Dec 24 2022

web raven progressive matrices conversion chart may 2nd 2018 scoring the ravens progressive matrices test scoring the rpm is based on two factors how many out of 60 problems matrices the tester correctly solved and iq numbers and percentages in raven s advanced matrices

raven progressive matrices conversion chart pdf dotnbnm - May 17 2022

web raven progressive matrices conversion chart 1 raven progressive matrices conversion chart normal personality processes physical assessment of the newborn applying the rasch model human computation dimensions of personality handbook of nonverbal assessment numerical reasoning in judgments and decision making about

raven progressive matrices conversion chart - Feb 11 2022

web manual for raven s progressive matrices and vocabulary scales raven progressive matrices conversion chart downloaded

from cms tonpetitlook com by guest alyson sawyer policies to address poverty in america world health organization this monograph outlines a model procedure for developing and running a community

[raven s progressive matrices wikipedia](#) - Oct 02 2023

web raven s progressive matrices often referred to simply as raven s matrices or rpm is a non verbal test typically used to measure general human intelligence and abstract reasoning and is regarded as a non verbal estimate of fluid intelligence

how to convert a raven score to an iq the classroom - Sep 01 2023

web mar 3 2019 raven s advanced progressive matrices is a non verbal reasoning test that is used to measure one s ability to use reasoning and logical ability the raven tests use images placed in a 2x2 3x3 or 4x4 matrix that follow a logical order or pattern the goal of the test taker is to discover the pattern

raven progressive matrices conversion chart 2022 - Aug 20 2022

web raven progressive matrices conversion chart 3 3 and integral operations involed in the higher thought processes and differentiaties clearly between people of even superior intellectual ability essentials of paleomagnetism national academies press we present to our readers the proceedings of the second international workshop on phosphate a

[raven progressive matrices conversion chart](#) - Nov 22 2022

web raven progressive matrices conversion chart what is the ceiling of the raven progressive matrices iq test what iq number does it correlate with how do i convert a raven s progressive matrices score to iq raven s progressive matrices test score conversion tables american mensa ltd raven test raw score vs percentile bing raven

a shortened version of raven s standard progressive matrices for - Apr 27 2023

web may 27 2021 abstract numerous developmental studies assess general cognitive ability not as the primary variable of interest but rather as a background variable raven s progressive matrices is an easy to administer non verbal test that is widely used to measure general cognitive ability

[raven s standard progressive matrices 2022 update](#) - May 29 2023

web the raven s progressive matrices is administered as a nonverbal group test it is typically a 60 item test used in measuring abstract reasoning and regarded as a non verbal estimate of fluid intelligence many patterns are presented in the form of a 6 6 4 4 3 3 or 2 2 matrix giving the test its name

[raven matrices conversion chart ai classmonitor com](#) - Jun 29 2023

web raven matrices conversion chart 1 raven matrices conversion chart statistical rethinking raven s 2 dyslexia advanced progressive matrices advanced progressive matrices dietary reference intakes for vitamin a vitamin k arsenic boron chromium copper iodine iron manganese molybdenum nickel

[raven progressive matrices conversion chart lia erc gov](#) - Sep 20 2022

web raven matrices conversion chart raven s progressive matrices wikipedia raven s progressive matrices often referred to simply as raven s matrices or rpm is a nonverbal group test typically used in percentile to z score calculator you get a raw score of 35 on the ravens advanced progressive matrices do i convert a raven s progressive

raven s progressive matrices all you need to know origins tutoring - Mar 27 2023

web jan 7 2017 raven s progressive matrices basics the progressive matrices were developed by dr john c raven in 1936 these multiple choice tests measure problem solving and reasoning skills by asking test subjects to logically complete patterns of geometric shapes

raven s progressive matrices researchgate - Jan 25 2023

web aug 22 2023 raven s colour progressive matrices is a measure of complex problem solving that uses primarily visual spatial stimuli raven 1965 raven court raven 1976 the colour version of the raven

raven progressive matrices conversion chart - Jul 19 2022

web 2 raven progressive matrices conversion chart 2022 12 05 brain performs mathematical calculations is far from complete in the number sense stanislas dehaene offers readers an enlightening exploration of the mathematical mind using research showing that human infants have a rudimentary number sense dehaene suggests that

ravenprogressivematricesconversionchart pdf try gamersupps - Mar 15 2022

web raven progressive matrices conversion chart raven progressive matrices conversion chart workplace what is my iq if i got a raw score of 27 on the ravens november 23rd 2017 percentile to z score calculator you get a raw score of

raven progressive matrices conversion chart - Apr 15 2022

web raven progressive matrices conversion chart downloaded from proteaseodontocompany com by guest angelica mcgee standard progressive matrices sets a b c d e igi global diet and health examines the many complex issues concerning diet and its role in increasing or decreasing the risk of chronic disease it

raven progressive matrices conversion chart pdf - Feb 23 2023

web manual for raven s progressive matrices and vocabulary scales univ of california press this monograph outlines a model procedure for developing and running a community vocational transition center that would assist workers in making various planned and unplanned vocational

raven matrices conversion chart banking finance gov ie - Oct 22 2022

web raven matrices conversion chart 1 raven matrices conversion chart an adventure in statistics a practical guide to frozen section technique manual for raven s progressive matrices and vocabulary scales iq and the wealth of nations dietary reference intakes for vitamin a vitamin k arsenic boron chromium copper iodine

raven raw score percentile conversion parents forum - Jul 31 2023

web dec 5 2005 as i understand it the raven progressive matrix test consists of a total of 60 patterns to analyze each pattern is presented in a grid typically 3 by 3 with one of the entries left blank the student has to identify it p