



Mathematics: applications and interpretation

Practice paper 1 SL

Total: 80 marks

1.

[Maximum mark: 5]

A school consists of 740 students divided into 5 grade levels. The numbers of students in each grade are shown in the table below.

| Grade | 8 | 9 | 10 | 11 | 12 |
|--------------------|-----|-----|-----|-----|-----|
| Number of students | 120 | 125 | 119 | 195 | 181 |

The Principal of the school wishes to select a sample of 25 students. She wishes to ensure that, as closely as possible, the proportion of the students from each grade in the sample is the same as the proportions in the school.

- (a) Calculate the number of grade 12 students who should be in the sample. [3]

The Principal selects the students for the sample by asking those who took part in a previous survey if they would like to take part in another. She takes the first of those who reply positively, up to the maximum needed for the sample.

- (b) State which two of the sampling methods listed below best describe the method used. [2]

Stratified Quota Convenience Systematic Simple random

2.

[Maximum mark: 5]

A factory produces engraved gold disks. The cost C of the disks is directly proportional to the cube of the radius r of the disk.

A disk with a radius of 0.8 cm costs 375 US dollars (USD).

- (a) Find an equation which links C and r . [3]

- (b) Find, to the nearest USD, the cost of disk that has a radius of 1.1 cm. [2]

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Collected Papers. Volume XIV Florentin Smarandache, 2022-11-01 This fourteenth volume of Collected Papers is an eclectic tome of 87 papers in Neutrosophics and other fields such as mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets information fusion robotics statistics or extenics comprising 936 pages published between 2008 2022 in different scientific journals or currently in press by the author alone or in collaboration with the following 99 co authors alphabetically ordered from 26 countries Ahmed B Al Nafee Adesina Abdul Akeem Agboola Akbar Rezaei Shariful Alam Marina Alonso Fran Andujar Toshinori Asai Assia Bakali Azmat Hussain Daniela Baran Bijan Davvaz Bilal Hadjadji Carlos D az Bohorquez Robert N Boyd M Caldas Cenap zel Pankaj Chauhan Victor Christianto Salvador Coll Shyamal Dalapati Irfan Deli Balasubramanian Elavarasan Fahad Alsharari Yonfei Feng Daniela G fu Rafael Rojas Gualdr n Haipeng Wang Hemant Kumar Gianey Noel Batista Hern ndez Abdel Nasser Hussein Ibrahim M Hezam Ilanthenral Kandasamy W B Vasantha Kandasamy Muthusamy Karthika Nour Eldeen M Khalifa Madad Khan Kifayat Ullah Valeri Kroumov Tapan Kumar Roy Deepesh Kunwar Le Thi Nhung Pedro L pez Mai Mohamed Manh Van Vu Miguel A Quiroz Mart nez Marcel Migdalovici Kritika Mishra Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohammed Alshumrani Mohamed Loey Muhammad Akram Muhammad Shabir Mumtaz Ali Nassim Abbas Munazza Naz Ngan Thi Roan Nguyen Xuan Thao Rishwanth Mani Parimala Ion P tra cu Surapati Pramanik Quek Shio Gai Qiang Guo Rajab Ali Borzooei Nimitha Rajesh Jes s Estupi an Ricardo Juan Miguel Mart nez Rubio Saeed Mirvakili Arsham Borumand Saeid Saeid Jafari Said Broumi Ahmed A Salama Nirmala Sawan Gheorghe S voiu Ganeshsree Selvachandran Seok Zun Song Shahzaib Ashraf Jayant Singh Rajesh Singh Son Hoang Le Tahir Mahmood Kenta Takaya Mirela Teodorescu Ramalingam Udhayakumar Maikel Y Leyva V zquez V Venkateswara Rao Luige Vl d reanu Victor Vl d reanu Gabriela Vl deanu Michael Voskoglou Yaser Saber Yong Deng You He Youcef Chibani Young Bae Jun Wadei F Al Omeri Hongbo Wang Zayen Azzouz Omar *The SAGE Handbook of Research in International Education* Mary Hayden, Jack Levy, Jeff Thompson, 2015-10-13 The landscape of international education has changed significantly in the last ten years and our understanding of concepts such as international global and multicultural are being re evaluated Fully updated and revised and now including new contributions from research in South East Asia the Middle East China Japan Australasia and North America the new edition of this handbook analyses the origins interpretations and contributions of international education and explores key contemporary developments including internationalism in the context of teaching and learning leadership standards and quality in institutions and systems of education the promotion of internationalism in national systems This important collection of research is an essential resource for anyone involved in the practice and academic study of international education including researchers and teachers in universities governmental and private curriculum development agencies examination authorities administrators and teachers in schools **The Undercover Economist Strikes Back** Tim Harford, 2015-01-06 A provocative and lively exploration of the increasingly important world of

macroeconomics by the author of the bestselling *The Undercover Economist* Thanks to the worldwide financial upheaval economics is no longer a topic we can ignore From politicians to hedge fund managers to middle class IRA holders everyone must pay attention to how and why the global economy works the way it does Enter Financial Times columnist and bestselling author Tim Harford In this new book that demystifies macroeconomics Harford strips away the spin the hype and the jargon to reveal the truth about how the world's economy actually works With the wit of a raconteur and the clear grasp of an expert Harford explains what's really happening beyond today's headlines why all of us should care and what we can do about it to understand it better

The Malvernian 2014 Malvern College, 2014-12-12 News from the year at Malvern College

NDA/ NA 11 years Topic-wise Solved Papers (2006 - 2016) 4th Edition Disha Experts, 2017-09-02 NDA NA 11 year Topic wise Solved Papers 2006 2016 consists of last 11 years both April and August papers from 2006 2016 solved papers of Mathematics and General Ability Test distributed into 57 topics In all there are 22 Question papers 2006 April 2016 August The paper I Mathematics is distributed into 24 topics whereas the Paper II General Ability Test is divided into 2 parts English and General Knowledge English is divided into 9 topics whereas General Knowledge is divided into 7 Units Physics Chemistry Biology History Polity Geography and General Awareness which are further divided into 24 topics The book contains 5800 MCQ's from the above 22 Question papers The Mathematics section contains 2600 MCQ's whereas the General Ability section contains 3200 MCQ's The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students

Supercomputing Vladimir Voevodin, Sergey Sobolev, 2022-01-03 This book constitutes the refereed post conference proceedings of the 7th Russian Supercomputing Days RuSCDays 2021 held in Moscow Russia in September 2021 The 37 revised full papers and 3 short papers presented were carefully reviewed and selected from 99 submissions The papers are organized in the following topical sections supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing

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Collected Papers. Volume X Florentin Smarandache, 2022-06-01 This tenth volume of Collected Papers includes 86 papers in English and Spanish languages comprising 972 pages written between 2014 2022 by the author alone or in collaboration with the following 105 co authors alphabetically ordered from 26 countries

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Collected Papers. Volume XII Florentin Smarandache, 2022-08-01 This twelfth volume of Collected Papers includes 86 papers comprising 976 pages on Neutrosophics Theory and Applications published between 2013 2021 in the international journal and book series Neutrosophic Sets and Systems by the author alone or in collaboration with the following 112 co authors alphabetically ordered from 21 countries

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 Omeri Xiao Long Xin Vector Robyn Arianrhod, 2024-05-30 The stars of the latest book by award winning science writer
 and mathematician Robyn Arianrhod are unlikely celebrities vectors and tensors If you took a high school physics course the
 word vector might remind you of the mathematics needed to determine forces on an amusement park ride say or of cross
 products a special kind of multiplication using a bespoke table and a right hand rule You might also remember the
 introductory definition of a vector as a quantity that has magnitude and this is the key direction Velocity for example 25 miles
 per hour northwest is a vector speed such as 25 miles per hour is not Put another way a velocity vector in space contains not
 one number but three a measurement of speed along each of three dimensions It sounds simple in hindsight yet as Arianrhod
 shows in this intriguing story the idea of a single symbol expressing several things at once is a sophisticated one millennia in
 the making Vectors are examples of an even more sophisticated idea the tensor And it s not just space that vectors and
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 s much more to it than velocities and simple forces Arianrhod shows how the discovery of vectors and tensors enabled
 physicists and mathematicians to think brand new thoughts such as Maxwell did when he ushered in the wireless
 electromagnetic age and Einstein when he predicted the curving of four dimensional space time and the existence of

gravitational waves Quantum theory too makes fine use of these ideas In other words vectors and tensors have been critical not only to the way we see our universe but also to the invention of Wi Fi GPS micro technology and so much else that we take for granted today In exploring the history and significance of vectors and tensors and introducing the fascinating people who gave them to us Arianrhod takes readers on an extraordinary five thousand year journey through the human imagination A celebration of an idea Vector shows the genius required to imagine the world in new dimensions and how a clever mathematical construct can direct the future of discovery

Neutrosophic Sets and Systems, book series, Vol. 14, 2016 Florentin Smarandache, Mumtaz Ali, Abstract Contributors to current issue listed in papers order Dragisa Stanujkic Florentin Smarandache Edmundas Kazimieras Zavadskas Darjan Karabasevic Huda E Khalid Ahmed K Essa Kul Hur Pyung Ki Lim Jeong Gon Lee Junhui Kim Harish Garg Salah Bouzina Rajashi Chatterjee Pinaki Majumdar Syamal Kumar Samanta W B Vasantha Kandasamy K Ilanthenral Rakib Iqbal Sohail Zafar Muhammad Shoaib Sardar Pablo Jos Men ndez Vera Cristhian Fabi n Men ndez Delgado Susana Paola Carrillo Vera Milton Villegas Alava Miriam Pe a G nzales Nguyen Xuan Thao Naga Raju I Rajeswara Reddy P Dr Diwakar Reddy V Dr Krishnaiah G Bui Cong Cuong Wenzhong Jiang Jun Ye Papers in current issue listed in papers order Multiple Criteria Evaluation Model Based on the Single Valued Neutrosophic Set A Neutrosophic Binomial Factorial Theorem with their Refrains The category of neutrosophic sets On Single Valued Neutrosophic Entropy of order Fuzzy Logic vs Neutrosophic Logic Operations Logic Interval valued Possibility Quadripartitioned Single Valued Neutrosophic Soft Sets and some uncertainty based measures on them Modified Collatz conjecture or 3a 1 3b 1 I Conjecture for Neutrosophic Numbers Neutrosophic Cubic Subalgebras and Neutrosophic Cubic Closed Ideals of B algebras Static analysis in neutrosophic cognitive maps I T Standard neutrosophic rough set and its topologies Real Life Decision Optimization Model Rough Standard Neutrosophic Sets An Application on Standard Neutrosophic Information Systems Optimal Design of Truss Structures Using a Neutrosophic Number Optimization Model under an Indeterminate Environment Keywords neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics neutrosophic measure neutrosophic applications Neutrosophic Sets and Systems, vol. 14/2016 Florentin Smarandache ,Mumtaz Ali , Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Bookseller's catalogues Richard Priestley,1812 *2024-25 CTET/TET Class 1 to V Mathematics Solved Papers* YCT Expert Team , 2024 25 CTET TET Class 1 to V Mathematics Solved Papers 864 1495 E This book contains 173 sets of the previous year s papers and 5190 objective questions **Number-Theoretic Methods in Cryptology** Andrzej Dąbrowski,Josef Pieprzyk,Jacek Pomykała,2025-02-18 This book constitutes the refereed post conference proceedings of the 4th International Conference on Number Theoretic Methods in Cryptology NuTMiC 2024 held in Szczecin Poland during June 24 26 2024 The 9 full papers and 2 invited papers

presented in this book were carefully reviewed and selected from 12 submissions They were organized in topical sections as follows invited talks elliptic curves in cryptography number theory algebraic structures and public key cryptography

Symmetry Measures on Complex Networks Angel Garrido,2018-07-09 This book is a printed edition of the Special Issue Symmetry Measures on Complex Networks that was published in Symmetry

Applications of Mathematics in Science and Technology Bui Thanh Hung,M. Sekar,Ayhan ESI,R. Senthil Kumar,2025-04-29 The Conference dealt with one of the most important problems faced in International development in Pure Mathematics and Applied mathematics development in engineering such as Cryptography Cyber Security Network Operations Research Heat Equation and so forth The aim of the conference was to provide a platform for researchers engineers academicians as well as industrial professionals to present their research results and development activities in Pure and Apply Mathematics and its applied technology It provided opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration

Theoretical Computer Science Kun He,Cheng Zhong,Zhiping Cai,Yitong Yin,2021-04-08 This book constitutes the thoroughly refereed proceedings of the 38th National Conference of Theoretical Computer Science NCTCS 2020 held in Nanning China in November 2020 The 13 full papers presented were carefully reviewed and selected from 28 submissions They present recent research in the areas of algorithms and complexity matrix computation deep learning network communication and security

Mediated Millennials Jeremy Schulz,Laura Robinson,Aneka Khilnani,John Baldwin,Heloisa Pait,Apryl A. Williams,Jenny Davis,Gabe Ignatow,2019-11-11 Sponsored by the Communication Information Technologies and Media Sociology Section of the American Sociological Association CITAMS Millennials and Media brings together case studies from across the globe to provide a timely examination of Generation Y s media practices

Climate Change Impacts on Nigeria Johnbosco C. Egbueri,Joshua O. Ighalo,Chaitanya B. Pande,2023-04-19 This book explores the impacts of climate change on Nigeria How climate change impacts the productivity and future development of different sectors in Nigeria was covered in this book Various themes of the Nigerian economy environment and climate change were considered Worthy of note are the impacts of climate change on the Nigerian air quality surface and groundwater resources watershed and natural resources development and planning soil quality fertility salinization nutrients and cropping patterns Also the impact of climate change on land use land cover urbanization and strategic planning crops and sustainable crop yield land degradation soil erosion landslides and landscapes rainfall trend patterns drought vulnerability ecology vegetation forest carbon and biomass management of Nigeria were investigated Finally the problems of climate change in semi arid and arid regions with special emphasis on Nigeria and possible solutions for sustainable development under the changing climate were discussed in this book Advanced technologies such as remote sensing GIS multivariate analytical tools and machine learning techniques were utilized in the exploration and analysis of the themes of this book Thus this book is a very important product for point of view researchers scientists NGOs and university

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