



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]

Ib Math 2013 Paper

Antonio Fasano, Adélia Sequeira



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Collected Papers. Volume VII Florentin Smarandache,2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013-2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzhen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi a Stanujki eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam **Collected Papers. Volume VI** Florentin Smarandache ,2022-01-15 This sixth volume of Collected Papers includes 74 papers comprising 974

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Critical Theory, Methods, and Design in Educational Research Lois Weis,Michelle Fine, Two of the foremost educational researchers chronicle their 30 year collaboration across tumultuous shifts in educational studies bearing witness to cumulative inequities in schools and urban communities Weis and Fine examine critical research designs with young people from elite working class and impoverished class fractions as well as across racial and ethnic groups including those experiencing structural dispossession and those enjoying privilege Curated to be useful to today s students and future generations of scholars the volume chronicles the sustained impacts of unjust state systems and dives into vibrant fissures in which the imagination flourishes and possibilities grow Chapters explore rich linkages of theory and methods knotty questions of collaboration partnership and ethics and designs that trace social relations over time and space A newly developed introduction and conclusion bookend six previously published chapters many coauthored with a range of colleagues animating research studies with a broad range of young people and young adults navigating the uneven landscapes of education in urban America Book Features Details linked to research methodologies including multi site longitudinal ethnography and longitudinal ethnographic interviews as well as participatory action

research that the authors among others have advanced in critical educational studies Provides examples of educational research that interrogate inequities and document radical possibilities by race class gender immigration status and sexuality Examines projects that have been designed alongside and by vibrant research teams from across schools prisons youth movements and public and private educational P 16 plus settings Interrogates how the authors evolved innovative research methods and ethics attentive to studying up mapping national youth led surveys participatory inquiry behind bars and with middle school students Offers educational designs that address inequities in STEM education and outcomes and the impact of state violence on young people as well as methods for understanding structural arrangements youth identities and on the ground research for justice

Commutative Algebra Irena Peeva, 2022-02-18 This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud's 65th birthday It brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

Telecommunication Network Economics Patrick Maillé, Bruno Tuffin, 2014-02-27 An up to date guide to the economic issues in telecommunications delivering a comprehensive overview from mathematical models to practical applications Covering hot topics such as app stores auctions for advertisements search engine business models network neutrality and virtual network operators this resource is ideal for graduate students researchers and industry practitioners

Neutrosophic Sets and Systems, Vol. V Florentin Smarandache, Mumtaz Ali, This book is a collection of nine papers contributed by different authors and co authors listed in the order of the papers A A Salama O M Khaled K M Mahfouz M Ali F Smarandache M Shabir L Vladareanu S Broumi K Mondal S Pramanik I Arockiarani I R Sumathi M Eisa and I Deli In first paper the authors studied Neutrosophic Correlation and Simple Linear Regression The Generalization of Neutrosophic Rings and Neutrosophic Fields is proposed in the second paper Cosine Similarity Measure of Interval Valued Neutrosophic Sets is studied in third paper In fourth paper A Study on Problems of Hijras in West Bengal Based on Neutrosophic Cognitive Maps is introduced Similarly in fifth paper Neutrosophic Crisp Set Theory is discussed In paper six Interval Valued Fuzzy Neutrosophic Soft Structure Spaces are presented by the authors Soft Neutrosophic Bi LA Semigroup and Soft Neutrosophic N LA Semigroup is given in seventh paper Introduction to Image Processing via Neutrosophic Technique is given in paper eight In the last paper Neutrosophic Soft Multi Set Theory and Its Decision Making is presented by the authors

Computational Methods in Earthquake Engineering Manolis Papadrakakis, Vagelis Plevris, Nikos D. Lagaros, 2016-12-22

This is the third book in a series on Computational Methods in Earthquake Engineering The purpose of this volume is to bring together the scientific communities of Computational Mechanics and Structural Dynamics offering a wide coverage of timely issues on contemporary Earthquake Engineering This volume will facilitate the exchange of ideas in topics of mutual interest and can serve as a platform for establishing links between research groups with complementary activities The computational aspects are emphasized in order to address difficult engineering problems of great social and economic importance

Advances in Mathematical Sciences Bahar Acu, Donatella Danielli, Marta Lewicka, Arati Pati, Saraswathy RV, Miranda Teboh-Ewungkem, 2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6-7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education

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 Abdel Nasser H Zaid Muhammad Akram Bobin Albert S A Alblowi S Anitha Guennoun Asmae Assia Bakali Ayman M Manie Abdul Sami Awan Azeddine Elhassouny Erick Gonz lez Caballero D Dafik Mithun Datta Arindam Dey Mamouni Dhar Christopher Dyer Nur Ain Ebas Mohamed Eisa Ahmed K Essa Faruk Karaaslan Jo o Alcione Sganderla Figueiredo Jorge Fernando Goyes Garcia N Ramila Gandhi Sudipta Gayen Gustavo Alvarez Gomez Sharon Dinarza Alvarez Gomez Haitham A El Ghareeb Hamiden Abd El Wahed Khalifa Masooma Raza Hashmi Ibrahim M Hezam German Acurio Hidalgo Le Hoang Son R Jahir Hussain S Satham Hussain Ali Hussein Mahmood Al Obaidi Hays Hatem Imran Nabeela Ishfaq Saeid Jafari R Jansi V Jeyanthi M Jeyaraman Sripathi Jha Jun Ye W B Vasanth Kandasamy Abdullah Karg n J Kavikumar Kawther Fawzi Hamza Alhasan Huda E Khalid Neha Andalleb Khalid Mohsin Khalid Madad Khan D Koley Valeri Kroumov Manoranjan Kumar Singh Pavan Kumar Prem Kumar Singh Ranjan Kumar Malayalan Lathamaheswari A N Mangayarkkarasi Carlos Rosero Martinez Marvelio Alfaro Matos Mai Mohamed Nivetha Martin Mohamed Abdel Basset Mohamed Talea K Mohana Muhammad Irfan Ahamad Rana Muhammad Zulqarnain Muhammad Riaz Muhammad Saeed Muhammad Saqlain Muhammad Shabir Muhammad Zeeshan Anjan Mukherjee Mumtaz Ali Deivanayagampillai Nagarajan Iqra Nawaz Munazza Naz Roan Thi Ngan Necati Olgun Rodolfo Gonz lez Ortega P Pandiammal I Pradeepa R Princy Marcos David Oviedo Rodriguez Jes s Estupi n Ricardo A Rohini Sabu Sebastian Abhijit Saha Mehmet ahin Said Broumi Saima Anis A

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Intentionality Practice Scale TIPS a framework for both supporting and measuring effective teaching Taken together the framework s seven TIPS provide a research based classroom tested guide to help teachers create coherent connected lessons use strategies and resources including technology that truly enhance learning organize a safe respectful learning environment develop challenging and rigorous learning experiences promote interactive thoughtful learning nurture a creative problem solving classroom culture and deliver feedback and formative assessment that inform teaching and learning Marshall s needs assessment instrument can help teachers working independently or in a cohort determine the best starting point for improving their practice Practical straightforward rubrics for each TIP describe the various levels of teacher proficiency Based on his own teaching experience and observations in hundreds of classrooms Marshall also offers action tips for each framework component and a list of resources for further study Written for teachers and leaders at all levels and in all content areas The Highly Effective Teacher is a guidebook for thoughtful intentional teaching with one goal success for all students in every classroom

Supercomputing Vladimir Voevodin, Sergey Sobolev, 2020-12-05 This book constitutes the refereed post conference proceedings of the 6th Russian Supercomputing Days RuSCDays 2020 held in Moscow Russia in September 2020 The 51 revised full and 4 revised short papers presented were carefully reviewed and selected from 106 submissions The papers are organized in the following topical sections parallel algorithms supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing The conference was held virtually due to the COVID 19 pandemic

Hemomath Antonio Fasano, Adélia Sequeira, 2017-10-30 This book illustrates applications of mathematics to various processes physiological or artificial involving flowing blood including hemorheology microcirculation coagulation kidney filtration and dialysis offering a historical overview of each topic Mathematical models are used to simulate processes normally occurring in flowing blood and to predict the effects of dysfunctions e g bleeding disorders renal failure as well as the effects of therapies with an eye to improving treatments Most of the models have a completely new approach that makes patient specific simulations possible The book is mainly intended for mathematicians interested in medical applications but it is also useful for clinicians such as hematologists nephrologists cardio surgeons and bioengineers Some parts require no specific knowledge of mathematics The book is a valuable addition to mathematics medical biology and bioengineering libraries

Graph Transformation Fabio Gadducci, Timo Kehrer, 2020-06-25 This book constitutes the refereed proceedings of the 13th International Conference on Graph Transformation ICGT 2020 in Bergen Norway in June 2020 The 16 research papers and 4 tool paper presented in this book were carefully reviewed and selected from 40 submissions One invited paper is also included The papers deal with the following topics theoretical advances application domains and tool presentations The conference was held virtually due to the COVID 19 pandemic

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

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

Light-Based Science Azzedine Boudrioua, Roshdi Rashed, Vasudevan Lakshminarayanan, 2017-08-15 This book discusses light based science emphasizing its pervasive influence in science technology policy and education A wide range of contributors offers a comprehensive study of the tremendous and indeed foundational contributions of Ibn al Haytham a scholar from the medieval period The analysis then moves into the future development of light based technology Written as a multi disciplinary reference book by leading scholars in the history of science and or photonics it covers Ibn al Haytham's optics LED lighting for sustainable development global and atomic scale time with new light sources advanced technology and vision science Cutting edge optical technologies and their global impact is addressed in detail and the later chapters also explore challenges with renewable energy the global impact of photonics and optical and photonic education technology Practical examples and illustrations are provided throughout the text

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