Statistics 1
Exploring data

Chapter assessment

1. George records the time he spends per day surfing the internet for the first three weeks of May. The times, given to the nearest minute, are as follows:

0	26	13	5	18	12	35
24	61	16	10	26	15	0
0	73	21	17	16	42	32

    (i)   Illustrate the data using a sorted stem and leaf diagram with eight stems. Comment briefly on the shape of the distribution.   [3]

    (ii) Find the mode, median and mean, commenting on their relative usefulness as measures of central tendency for this data set.   [5]

    (iii) Calculate the standard deviation and hence find any outliers.   [4]

    (iv) George's Dad claims that he is spending too much time on the internet. He tells George to reduce his usage so that the mean daily time for May is 20% less than the current mean.

          What is the maximum total time George can spend surfing the internet for the remaining 10 days of May?   [3]

2. Over a period of time, a teacher recorded the number of time, x, each of the 20 students in the mathematics class was absent. The distribution was as follows.

Number of times absent, x	0	1	2	3	4	5	6	7	8	9	10	11 or more
Number of students, f	4	6	3	2	0	2	0	1	1	0	1	0

    $$\sum f = 20, \quad \sum fx = 53, \quad \sum fx^2 = 299$$

    (i)   Illustrate the data using a suitable diagram.   [2]

    (ii) State the mode and find the median for the data set.   [2]

    (iii) Calculate the mean and the standard deviation of the data set.   [3]

    During this period of time, there were 30 mathematics lessons. The teacher needs to analyse the distribution of the number of times each student was *present* during the 30-lesson session.

    (iv) Without creating a new frequency distribution, deduce values for the mean and standard deviation of the numbers of times students were present. Describe the shape of the new distribution.   [3]

Mei Statistics 1 Exploring Data Answers

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Mei Statistics 1 Exploring Data Answers:

   Software and Data Engineering Wenying Feng,Nick Rahimi,Venkatasivakumar Margapuri,2024-10-18 This book constitutes the proceedings of the 33rd International Conference on Software and Data Engineering SEDE 2024 held in San Diego California USA during October 21 22 2024 The 14 full papers presented in these proceedings were carefully reviewed and selected from 25 submissions These papers focus on a wide range of topics within Software and Data engineering and have been categorized into the following topical sections Software Engineering and Data Science Artificial Intelligence

   Current Index to Statistics, Applications, Methods and Theory ,1997 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   **Main Economic Indicators: Sources and Definitions 2000** OECD,2000-08-16 This publication supplements the monthly Main Economic Indicators It provides explanations on the sources and definitions used by individual Member countries and selected non member countries to compile the short term indicators currently presented in the MEI   **Time Delay Systems** Tamás Insperger,Tulga Ersal,Gábor Orosz,2017-03-30 This volume collects contributions related to selected presentations from the 12th IFAC Workshop on Time Delay Systems Ann Arbor June 28 30 2015 The included papers present novel techniques and new results of delayed dynamical systems The topical spectrum covers control theory numerical analysis engineering and biological applications as well as experiments and case studies The target audience primarily comprises research experts in the field of time delay systems but the book may also be beneficial for graduate students alike   **Intelligent Data Analytics for Terror Threat Prediction** Subhendu Kumar Pani,Sanjay Kumar Singh,Lalit Garg,Ram Bilas Pachori,Xiaobo Zhang,2021-02-09 Intelligent data analytics for terror threat prediction is an emerging field of research at the intersection of information science and computer science bringing with it a new era of tremendous opportunities and challenges due to plenty of easily available criminal data for further analysis This book provides innovative insights that will help obtain interventions to undertake emerging dynamic scenarios of criminal activities Furthermore it presents emerging issues challenges and management strategies in public safety and crime control development across various domains The book will play a vital role in improvising human life to a great extent Researchers and practitioners working in the fields of data mining machine learning and artificial intelligence will greatly benefit from this book which will be a good addition to the state of the art approaches collected for intelligent data analytics It will also be very beneficial for those who are new to the field and need to quickly become acquainted with the best performing methods With this book they will be able to compare different approaches and carry forward their research in the most important areas of this field which has a direct impact on the betterment of human life by maintaining the security of our society No other book is currently on the market which provides such a good collection of state of the art methods for intelligent data analytics based models for terror threat prediction as intelligent data analytics is a newly emerging field and research in data mining and machine learning is still in the early

stage of development   *The British National Bibliography* Arthur James Wells,1994   **Teaching Innovations in Economics** Luis F. Rivera-Galicia,José-María Montero,Carmelo García-Pérez,Eva Senra-Díaz,2026-01-01 This book offers educators a comprehensive practical guide to modernizing their teaching methods enabling economic theory to connect directly with the demands of the digital world The landscape of economics education is undergoing an unprecedented transformation driven by the integration of advanced technologies especially artificial intelligence AI and other emerging digital tools Through real world case studies and innovative methodological frameworks this book presents concrete strategies to Implement AI solutions and emerging technologies in the classroom Design personalized learning experiences tailored to each student s unique needs Utilize virtual tutoring and automated assessments to foster a deeper understanding of economic concepts Adapt and transform traditional pedagogical practices into dynamic student centered models Written by a team of internationally renowned experts this book is an indispensable resource for university professors researchers and education professionals By exploring new frontiers in teaching the book not only enriches pedagogical practice but also equips students to successfully navigate the challenges of the digital age economy   <u>Lawless</u> Martha Paynter,2025-09-28T00:00:00Z Canada is the only country with complete decriminalization of abortion no gestational duration limitations no parental consent obligations and no waiting periods In recent years other countries New Zealand Colombia Uruguay Mexico have made strides toward this while the United States has notoriously lost ground Amidst the tumult nurse and scholar Martha Paynter uses historical context and contemporary issues to explain why experts advocate against laws governing abortion Despite decriminalization Canadian federal and provincial legislation and regulations about health funding delivery and human rights all shape how abortion care is delivered Barriers persist in uneven access unclear information and belief based denial of care In accessible plain language from the expansive perspective of a clinician researcher and activist Paynter describes abortion policy practice and experience and discusses how to resolve challenges that continue more than three decades after Canada became the world s most legally progressive jurisdiction for abortion

AMSTAT News American Statistical Association,2004   <u>Main Economic Indicators</u> ,2000   <u>World AIDS Day 2022: Putting ourselves to the test: achieving equity to end HIV</u> Diego Ripamonti ,Segundo Ramos León Sandoval,2024-10-29 Since HIV was first identified in the early 1980s we have had numerous scientific advancements to improve HIV prevention and treatment However there are still 38 million people currently living with HIV and a proportion of them have developed Acquired Immunodeficiency Syndrome AIDS The main issue with HIV and AIDs is inequalities the communities affected are disproportionately distributed among the Global South World AIDS Day takes place every year on the 1st of December and was founded in 1988 making it the first global health day to be established This year the theme of World AIDS Day is equality Tackling the inequalities surrounding HIV testing prevention care and stigma among marginalized populations is the only way to not fall behind the targets of the third sustainable development goal of ending the HIV AIDS epidemic by 2030

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