

FURTHER MATHEMATICS
TRIAL EXAMINATION 2
SOLUTIONS
2020
(Adjusted Study Design)

SECTION A - Core

Data analysis

Question 1 (5 marks)

- a. The modal pH is 7.3. (1 mark)
- b. 18 rivers have a pH between 6.5 and 8.0. (1 mark)
- c. The median is the middle score. It lies between the 12th and 13th scores, i.e. between 7.1 and 7.3. The median is 7.2. (1 mark)
- d. Start by finding the lower fence. (1 mark)
- $$\text{lower fence} = Q_1 - 1.5 \times IQR \quad (\text{formula sheet})$$
- $$= 6.7 - 1.5 \times (7.7 - 6.7)$$
- $$= 5.2$$
- Since $5.3 > 5.2$ then 5.3 cannot be an outlier. (1 mark)

Question 2 (5 marks)

- a. The variable *year*, is a categorical variable.
The variable *concentration of phosphorus* is a numerical variable.
So one of these variables is a numerical variable. (1 mark)
- b. i. Note that the minimum value of the distribution is 0.03 and **not** 0.07. (1 mark)
- ii. The distribution is negatively skewed with a possible outlier. (1 mark)
- c. Both the mean and the median would be appropriate because the distribution is symmetric and contains no outliers. (1 mark)
- d. Method 1 – compare the medians
The parallel boxplots show that the concentration of phosphorus and the year in which the rivers were tested are associated because the concentrations increased with the years. In 2010 the median concentration was 0.10 and in 2017 it was 0.20. (1 mark)

Trial Exam Further Maths

Jin-Ying Zhang



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VCE Mathematical Methods Mike Cody, 2006 *Year 2006 VCE Mathematical Methods*, 2006 **Further Mathematics**, 2001 **Revise in a Month VCE Psychology** Julian Fraillon, 2005 **Further Mathematics**, 2001

Achieving Further Daniel Slosberg, 2016-01-07 Do you have students who are far ahead of their peers in math Are you a teacher who differentiates for those students by giving them additional topics but without knowing what topics they have already covered over the past years and without a plan for the topics they should cover in the next years Are you a head of department who wants to streamline differentiation throughout your math department to ensure talented students have a more uniform experience as they move from teacher to teacher and have a goal they are working towards year after year Are you a principal who wants to improve the results of your students in HL Math and to have students from your school start succeeding in HL Further Math If so this book describes a program to prepare IB Middle Years Program MYP students to enter the Diploma Program DP taking HL Further Math as their only math course The program is modeled on the ATYP program from Kalamazoo MI started by Carol McCarthy *Math on Trial* Leila Schneps, Coralie Colmez, 2013-03-12 Describes the issues that can result when mathematical arguments are improperly used and discusses ten trials where this was the case including the Dreyfus Affair the case of Diana Sylvester and Charles Ponzi's original scheme **Improving Maths and English in Further Education: A Practical Guide** Jonathan Kay, 2021-06-04 Improving Maths and English in Further Education provides a strategic practical and easily applied toolkit for teachers and leaders as they work with students to gain core skills The book highlights the unique challenges that are faced within the sector and the value of embedding college wide literacy and numeracy for success providing a range of strategies to resolve challenges Structured to make sure that there is always an alternative approach method or suggestion the book allows the reader to choose the steps that suit their context best Each chapter looks at the key priorities Identifies a range of potential solutions to a challenge faced in FE Acknowledges potential implementation pitfalls and remedies Suggests practical takeaways key considerations and next steps Teachers and staff within further and Post 16 education will find this an essential resource for supporting students studying maths and English Teachers and leaders from curriculum areas across the sector will find scenarios and anecdotes that resonate in this book timetabling accountability motivation a must read Catherine Sezen Senior Policy Manager FE This is an interesting and engaging read from Jonny who has produced a book that brings together contemporary educational literature with a personal and honest take on leading and teaching English and Maths in FE Steven Wallis Executive Director Quality NCG This book caters for the many different voices people and characters in FE it does exactly what it says on the tin It will give you all the tools for a great job with an evidence base to boot Julia Smith tessmaths Jonathan Kay has managed and led English and maths departments in Further Education since 2017 as well as working as consultant for the Association of Colleges and Lead English Expert and examiner for a leading exam board

Jonathan has also previously worked as an English teacher 2nd in Department and Head of English in a range of Secondary schools

Designing Randomised Trials in Health, Education and the Social Sciences D. Torgerson, 2008-03-13 The book focuses on the design of rigorous trials rather than their statistical underpinnings with chapters on pragmatic designs placebo designs preference approaches unequal allocation economics analytical approaches randomization methods It also includes a detailed description of randomization procedures and different trial designs CliffsNotes TExES Math 4-8 (115) and Math 7-12 (235) Sandra Luna McCune, 2020-09-15 CliffsNotes TExES Math 4 8 115 and Math 7 12 235 is the perfect way to study for Texas middle school and high school math teacher certification tests Becoming a certified middle school math teacher and high school math teacher in Texas means first passing the TExES Math 4 8 115 teacher certification test for middle school teachers or the TExES Math 7 12 235 teacher certification test for high school teachers This professional teacher certification test is required for all teachers who want to teach math in a Texas middle or high school Covering each test s six domains and individual competencies with in depth subject reviews this test prep book also includes two model practice tests with answers and explanations for the Math 4 8 and two model practice tests with answers and explanations for the Math 7 12 Answer explanations detail why correct answers are correct as well as what makes incorrect answer choices incorrect Aviation Psychology Program Research Reports United States. Army Air Forces, 1947

Scribe with a Scalpel Mark Killingback, 2017-06-27 Scribe With A Scalpel is the biography of an Australian surgeon who practised in Sydney for 41 years 1961 2001 It is diarised in chronological sequence and includes memoirs reflections achievements and disappointments Aspects of family life are detailed The book refers to some aspects of the training of surgeons in Australia and the United Kingdom Initially practising as a general surgeon Dr Killingback became the first surgeon in Australia to practice exclusively as a colorectal surgeon a professional move that was not greeted with enthusiasm by most general surgeons The book illustrates the development of colorectal surgery as a specialty in Australia and includes the authors contributions to Australian and international colorectal meetings The book includes 225 illustrations

Apparatus Tests Arthur Weever Melton, 1948

New A-Level Maths Edexcel Complete Revision & Practice (with Video Solutions), 2021-12-20 This superb all in one Complete Revision Practice Guide has everything students need to tackle the A Level Maths exams It covers every topic for the Edexcel course with crystal clear revision notes and worked examples to help explain any concepts that might trip students up It includes brand new Spot the Mistakes pages allowing students to find mistakes in mock answers as well as sections on Modelling Problem Solving and Calculator Use We ve also included exam style practice questions to test students understanding with step by step video solutions for some of the trickier exam questions For even more realistic exam practice make sure to check out our matching Edexcel Exam Practice Workbook 9781782947400

Recollections James R. Harding, 2012-06-14 This book is part autobiography and part genealogy It is the story of Jim Harding s first seventy years from childhood through early retirement It includes an ancestral search of both

he and his wife His intent is to leave the work unfinished so that his children and their children can add to the story The story follows a fascinating military career that spans twenty seven family moves across four continents followed by nine plus years of insight into an International Organization This is Jim s second published works His first First Posting is dedicated to his wife Vicki and places her in a fictional 1890 s role as a soldier s wife

Before Dementia Dr. Kate Gregorevic,2024-09-03 Structured around 20 questions you need to ask to help prevent prepare and cope this book is a friendly authoritative guide for anyone facing dementia and those who care for them Exploring why disease is a social construct just as much as a biological construct it helps us understand what it means to live with or care for someone with dementia How do I know if I have dementia and how will I live with it if I do Can people with dementia consent to sex Can they choose euthanasia for their future selves And can we prevent or push back its onset Chances are you know someone with dementia but how well do you really understand the condition Dementia is a complex interplay of biological social and psychological factors and understanding it means understanding more about society and ourselves Approaching the topic through 20 insightful questions geriatrician Dr Kate Gregorevic explains the physical state of dementia how to relate the diagnosis to real life what questions to ask your doctor strategies for preventing the condition and how we can make our homes and society better for people with dementia While this book tackles some uncomfortable questions its purpose is to help to prevent to prepare to cope and to understand and provide you with strategies for moving forward

The Educational year book. [5 issues].,1882 **The Pacific Reporter** ,1918 Comprising all the decisions of the Supreme Courts of California Kansas Oregon Washington Colorado Montana Arizona Nevada Idaho Wyoming Utah New Mexico Oklahoma District Courts of Appeal and Appellate Department of the Superior Court of California and Criminal Court of Appeals of Oklahoma varies

Winning the H Factor Alistair Smith,2010-02-03

Keeping Mozart in Mind Gordon L. Shaw,2003-11-19 The demand for math and science skills in our technology driven world is at a premium and yet U S students continue to lag behind many other industrialized countries in these areas This book based on studies conducted on 8000 elementary school aged children proposes that not only is there a relationship between music and math comprehension but that music can be utilized to heighten higher brain function and improve math skills The enclosed CD Rom includes 1 a recording of Allegro con spirito from Sonata for Two Pianos in D Major K 448 by Wolfgang Amadeus Mozart performed by Murray Perahia and Radu Lupu courtesy of Sony ClassicalTM and 2 a descriptive interactive version of S T A R TM Spatial Temporal Animation Reasoning software program While this book s discussion of the breakthroughs in understanding of spatial temporal reasoning abilities will be of particular interest to neuroscientists and cognitive researchers the book is also accessible to parents and educators Presents the theory that music exercises higher brain function and can enhance math comprehension Details how music training coupled with special temporal reasoning thinking in pictures can dramatically impact a child s ability to understand and master math Includes an interactive CD ROM with math games

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