

**GRADE 12 MATHEMATICS**  
**NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

The following frequency table provides the number of goals scored by the Proteas netball team during 50 matches in 2018.

Number of goals	Frequency	Cumulative Frequency
$5 < x \leq 10$	6	b
$10 < x \leq 15$	a	14
$15 < x \leq 20$	13	27
$20 < x \leq 25$	9	c
$25 < x \leq 30$	7	43
$30 < x \leq 35$	d	48
$35 < x \leq 40$	e	50

- 1.1 Determine the values a to e.  
 1.2 Calculate the average goals scored in 2018.

(5)  
 (2)  
 (7)

**QUESTION 2**

The table below shows the data for the heart rate per minute of ten males. Their heart rate is checked before they cycle for 10 min ( $x$ ) and after they have exercised ( $y$ ).

	1	2	3	4	5	6	7	8	9	10
Heart rate before	85	90	125	80	85	112	93	118	95	100
Heart rate after	95	100	158	125	125	145	90	175	150	120

- 2.1 Represent the data as a scatter diagram on the grid provided.  
 2.2 Calculate the mean heart rate before AND after exercise.  
 2.3 Determine the formula for the least regression line to 4 decimal places.  
 2.4 Calculate the correlation coefficient to 4 decimal places AND comment on the strength of it.

(3)  
 (2)  
 (2)  
 (2)

- 2.5 Draw the least squares regression line on your scatter diagram.

(7)  
 (14)

**QUESTION 3**

The table below shows the distances (in kilometers) travelled daily by a sales representative for 21 working days in a certain month.

131	132	140	140	141	144	146
147	149	150	151	159	167	169
169	172	174	175	178	187	189

- 3.1 Calculate the mean distance travelled by the sales representative.  
 3.2 Write down the five-number summary for this data.  
 3.3 Draw the box-and-whisker diagram for this set of data.  
 3.4 Calculate the standard deviation of the distance travelled.

(2)  
 (4)  
 (2)  
 (2)  
 (10)

**QUESTION 4**

- 4.1 The diagram shows P, A, Q, R and S lies on the circumference of the circle with centre O. SB is a tangent at S and RSWP. ACWS and RWP are straightlines.



Proof that:

- 4.1.1  $SB \parallel RP$   
 4.1.2  $2P^{\circ} = W^{\circ}, AS^{\circ}$   
 4.1.3  $AS^{\circ} = \frac{RP^{\circ}}{2} + W^{\circ}$

(4)  
 (5)  
 (4)

# Mathematics Paper 2 November 2012 Memorandum

**Alan Daly, Kara Finnigan**



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Failure Vicki E. Alger,2016-07-01 A comprehensive account and frank assessment of federal involvement in education is long overdue Education policy expert Vicki E Alger remedies this deficiency with her book Failure The Federal Miseducation of America s Children As its title indicates Failure makes no effort to sugar coat its findings Created in 1979 after a lobbying campaign that spanned generations the Department of Education has failed to live up to its promises Federal involvement whether related to testing funding or academic curricula has failed to abide by the Constitution s implication that education must remain the domain only of state and local governments and private institutions Most of all the central government s pervasive meddling in education has failed America s school children and their parents Education policy has long been mired in controversies often with opposing sides missing the mark Failure helps us step back from the skirmish du jour and redirects our focus to the big picture showing us what s gone wrong over the decades and the institutional causes of

these failures It also offers a bold blueprint for returning the federal government to its constitutional role and for cultivating an educational system that meets the needs of students and parents rather than bureaucrats Concerned citizens of every stripe will benefit from Failure s history of federal education policy its brutally honest report card for the Department of Education its look at education systems across the globe and its ambitious policy recommendations Failure might even succeed in reframing the way the federal education establishment thinks about education policy     **Thinking and Acting Systemically** Alan Daly,Kara Finnigan,2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complex systems change     CFA Program Curriculum 2018 Level II CFA Institute,2017-08-01 Master the practical aspects of the CFA Program Curriculum with expert instruction for the 2018 exam The same official curricula that CFA Program candidates receive with program registration is now publicly available for purchase CFA Program Curriculum 2018 Level II Volumes 1 6 provides the complete Level II Curriculum for the 2018 exam with practical instruction on the Candidate Body of Knowledge CBOK and how it is applied including expert guidance on incorporating concepts into practice Level II focuses on complex analysis with an emphasis on asset valuation and is designed to help you use investment concepts appropriately in situations analysts commonly face Coverage includes ethical and professional standards quantitative analysis economics financial reporting and analysis corporate finance equities fixed income derivatives alternative investments and portfolio management organized into individual study sessions with clearly defined Learning Outcome Statements Charts graphs figures diagrams and financial statements illustrate complex concepts to facilitate retention and practice questions with answers allow you to gauge your understanding while reinforcing important concepts While Level I introduced you to basic foundational investment skills Level II requires more complex techniques and a strong grasp of valuation methods This set dives deep into practical application explaining complex topics to help you understand and retain critical concepts and processes Incorporate analysis skills into case evaluations Master complex calculations and quantitative techniques Understand the international standards used for valuation and analysis Gauge your skills and understanding against each Learning Outcome Statement CFA Institute promotes the highest standards of ethics education and professional excellence among investment professionals The CFA Program Curriculum guides you through the breadth of knowledge required to uphold these standards The three levels of the program build on each other Level I provides foundational knowledge and teaches the use of investment tools Level II focuses on application of concepts and analysis particularly in the valuation of assets and Level III builds toward synthesis across topics with an emphasis on portfolio management     **Learning to Learn** Sebastian Thrun,Lorien Pratt,2012-12-06 Over the past three

decades or so research on machine learning and data mining has led to a wide variety of algorithms that learn general functions from experience As machine learning is maturing it has begun to make the successful transition from academic research to various practical applications Generic techniques such as decision trees and artificial neural networks for example are now being used in various commercial and industrial applications Learning to Learn is an exciting new research direction within machine learning Similar to traditional machine learning algorithms the methods described in Learning to Learn induce general functions from experience However the book investigates algorithms that can change the way they generalize i e practice the task of learning itself and improve on it To illustrate the utility of learning to learn it is worthwhile comparing machine learning with human learning Humans encounter a continual stream of learning tasks They do not just learn concepts or motor skills they also learn bias i e they learn how to generalize As a result humans are often able to generalize correctly from extremely few examples often just a single example suffices to teach us a new thing A deeper understanding of computer programs that improve their ability to learn can have a large practical impact on the field of machine learning and beyond In recent years the field has made significant progress towards a theory of learning to learn along with practical new algorithms some of which led to impressive results in real world applications Learning to Learn provides a survey of some of the most exciting new research approaches written by leading researchers in the field Its objective is to investigate the utility and feasibility of computer programs that can learn how to learn both from a practical and a theoretical point of view

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**A History of Inverse Probability** Andrew I. Dale,2012-09-08 This is a history of the use of Bayes theorem from its discovery by Thomas Bayes to the rise of the statistical competitors in the first part of the twentieth century The book focuses particularly on the development of one of the fundamental aspects of Bayesian statistics and in this new edition readers will find new sections on

contributors to the theory In addition this edition includes amplified discussion of relevant work **Arc Plasma Technology in Materials Science** Dennis A. Gerdeman, Norman L. Hecht, 2012-12-06 Although a considerable amount of information concerning the applications for arc plasmas in the materials sciences is available it is contained in literally thousands of separate manuals technical notes textbooks and government and industrial reports Each source generally deals with only one specific application or at best a narrow range of utilization This book was developed to provide a comprehensive and up to date compilation of information in the technology of arc plasma utilization The book is divided into two general categories flame spraying and materials evaluation In the flame spraying section a comprehensive review of the plasma spraying process is presented The design and operation of plasma spraying equipment are described Included are a description of the nature of a plasma and the design and operation of plasma generators powder feed systems and accessory control equipment The general process procedures and associated process variables are described Particular emphasis is given to the particle heating process and the mechanisms for adherence and cohesion of coatings Competitive flame spraying equipment is also detailed combustion process detonation and electric arc and compared with the plasma spray process A discussion and compilation of flame sprayed ceramic and metal materials their properties and applications are also included

**English as an International Language in Asia: Implications for Language Education** Andy Kirkpatrick, Roland Sussex, 2012-10-12 Even as Anglophone power wanes in Asia and China and India rise the role of the English language in the region continues to develop How are students in Asian nations such as Vietnam Malaysia and China itself being taught English This much needed overview analyzes the differing language education policies of selected countries that also include Indonesia Japan and Sri Lanka Noting ASEAN's adoption of English as its sole working language it traces the influence of globalization on English language education in Asia in many systems it pushes local languages off the curriculum and is taught as a second language after the national one Informed by a comprehensive review of current research and practice in English teaching in Asia this volume considers the many different roles English is playing across the region as well as offering an informed assessment of the prospects of English and Chinese being a universal language of communication

**Culture and Human-Robot Interaction in Militarized Spaces** Julie Carpenter, 2016-02-26 Explosive Ordnance Disposal EOD personnel are some of the most highly trained people in the military with a job description that spans defusing unexploded ordnance to protecting VIPs and state dignitaries EOD are also one of the first military groups to work with robots every day These robots have become an increasingly important tool in EOD work enabling people to work at safer distances in many dangerous situations Based on exploratory research investigating interactions between EOD personnel and the robots they use this study richly describes the nuances of these reciprocal influences especially those related to operator emotion associated with the robots In particular this book examines the activities processes and contexts that influence or constrain everyday EOD human robot interactions what human factors are shaping the robotic technology and how people

and culture are being changed by using it The findings from this research have implications for future personnel training and the refinement of robot design considerations for many fields that rely on critical small group communication and decision making skills

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**Automation of Reasoning** J. Siekmann, G. Wrightson, 2012-12-06 Kind of crude but it works boy it works AZan NeweZZ to Herb Simon Christmas 1955 In 1954 a computer program produced what appears to be the first computer generated mathematical proof Written by M Davis at the Institute of Advanced Studies USA it proved a number theoretic theorem in Presburger Arithmetic Christmas 1955 heralded a computer program which generated the first proofs of some propositions of Principia Mathematica developed by A Newell J Shaw and H Simon at RAND Corporation USA In Sweden H Prawitz D Prawitz and N Voghera produced the first general program for the full first order predicate calculus to prove mathematical theorems their computer proofs were obtained around 1957 and 1958 about the same time that H Gelernter finished a computer program to prove simple high school geometry theorems Since the field of computational logic or automated theorem proving is

emerging from the ivory tower of academic research into real world applications asserting also a definite place in many university curricula we feel the time has come to examine and evaluate its history The article by Martin Davis in the first of this series of volumes traces the most influential ideas back to the prehistory of early logical thought showing how these ideas influenced the underlying concepts of most early automatic theorem proving programs Knowledge, Curriculum and Equity Brian Barrett,Ursula Hoadley,John Morgan,2017-07-20 In 2008 the first in a series of symposia established a social realist case for knowledge as an alternative to the relativist tendencies of the constructivist post structuralist and postmodernist approaches dominant in the sociology of education The second symposium focused on curriculum and the development of a theoretical language grounded in social realism to talk about issues of knowledge and curriculum Finally the third symposium brought together researchers in a broad range of contexts to build on these ideas and arguments and with a concerted empirical focus bring these social realist ideas and arguments into conversation with data Knowledge Curriculum and Equity Social Realist Perspectives contains the work of the third symposium where the strengths and gaps in the social realist approach are identified and where there is critical recognition of the need to incrementally extend the theories through empirical study Fundamentally the problem that social realism is seeking to address is about understanding the social conditions of knowledge production and exchange as well as its structuring in the curriculum and in pedagogy The central concern is with the on going social reproduction of inequality through schooling and exploring whether and how foregrounding specialised knowledge and its access holds the possibility for interrupting it This book consists of 13 chapters by different authors working in Oceania Asia Europe Africa and North America From very different vantage points the authors focus their theoretical and empirical sights on the assumptions about knowledge that underpin educational processes and the pursuit of more equitable schooling for all *Defense Acquisition Trends, 2015* Jesse Ellman,Andrew P. Hunter,Rhys McCormick,Gregory Sanders,2016-02-19 This study examines contracting trends at the U S Department of Defense DoD It relies on empirical analysis of DoD contracting transaction data from the open source Federal Procurement Data System FPDS The authors seek to identify and study emergent trends in the contracting data and marry that analysis with discussion of changing goals and methods for the larger acquisition system **Drawing Futures** Bob Sheil,Frédéric Migayrou,Luke Pearson,Laura Allen,2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects



writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas

Guide to U.S. Foreign Policy Robert J. McMahon, Thomas W. Zeiler, 2012-08-02 At no time in American history has an understanding of the role and the art of diplomacy in international relations been more essential than it is today Both the history of U S diplomatic relations and the current U S foreign policy in the twenty first century are major topics of study and interest across the nation and around the world Spanning the entire history of American diplomacy from the First Continental Congress to the war on terrorism to the foreign policy goals of the twenty first century Guide to U S Foreign Policy traces not only the growth and development of diplomatic policies and traditions but also the shifts in public opinion that shape diplomatic trends This comprehensive two volume reference shows how the United States gained the strength of a giant and also analyzes key world events that have determined the United States changing relations with other nations The two volumes structure makes the key concepts and issues accessible to researchers The set is broken up into seven parts that feature 40 topical and historical chapters in which expert writers cover the diplomatic initiatives of the United States from colonial times through the present day Volume II s appendix showcases an A to Z handbook of diplomatic terms and concepts organizations events and issues in American foreign policy The appendix also includes a master bibliography and a list of presidents secretaries of state war and defense and national security advisers and their terms of service This unique reference highlights the changes in U S diplomatic policy as government administrations and world events influenced national decisions Topics include imperialism economic diplomacy environmental diplomacy foreign aid wartime negotiations presidential influence NATO and its role in the twenty first century and the response to terrorism Additional featured topics include the influence of the American two party system the impact of U S elections and the role of the United States in international organizations Guide to U S Foreign Policy is the first comprehensive reference work in this field that is both historical and thematic This work is of immense value for researchers students and others studying foreign policy international relations and U S history

**ABOUT THE EDITORS** Robert J McMahon is the Ralph D Merison Professor of History in the Merison Center for International Security Studies at The Ohio State University He is a leading historian of American diplomatic history and is author of several books on U S foreign relations Thomas W Zeiler is professor of history and international affairs at the University of Colorado at Boulder and is the executive editor of the journal Diplomatic History

Social Robots in Education Georgios Lampropoulos, Stamatios Papadakis, 2025-05-03 This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction and educational robotics the

emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots and AI in education

**Palmer's Index to "The Times" Newspaper** ,1903 Covers the period from 1790 to 1905 in The Times of London

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