

GENERAL CERTIFICATE OF EDUCATION EXAMINATION

Ordinary Level

SUMMER, 1960

PURE MATHEMATICS.—II

(Syllabus B)

TUESDAY, June 28.—Morning, 9.30 to 11.30

*Credit will be given for the orderly presentation of material;
candidates who neglect this essential will be penalised.*

All necessary working must be shown

*Answer ALL questions in Section A and THREE questions
only in Section B.*

SECTION A

1. (Tables may NOT be used for any part of this Question.)

(i) Find the value of $4 \cdot 7^3$.

(ii) Given that $\tan A = \frac{15}{8}$, calculate $\sin A$.

(iii) Find the value of $5^3 - (49^{\frac{1}{2}} \times 3^{-2})$.

2. (i) Use tables to evaluate $\sqrt{(\sin 40^\circ + \tan 40^\circ)}$
and $\frac{10}{\cos 37^\circ 37'}$.

(ii) In the triangle ABC , $AB = AC$. The bisector of the angle ABC meets AC at X . Given that the angle $BXC = 60^\circ$, calculate the angle BAC .

3. (i) Solve the equations $\frac{x}{2} - \frac{y}{3} = 2$, $2x + 3y = 1\frac{1}{2}$.

(ii) An isosceles triangle has angles 40° , 67° and 67° and an area of 50 sq. cm. Calculate the length of its equal sides.

4. Using a scale of 1 in. to represent 10 units on both axes, plot the points $A(-2, 10)$, $B(14, -14)$ and $C(48, 20)$. Using ruler and compasses only, construct the circle which passes through A , B and C . State the coordinates of the centre of this circle.

5. (i) Express $\frac{2}{2n-1} - \frac{1}{n}$ as a single fraction in its simplest form.

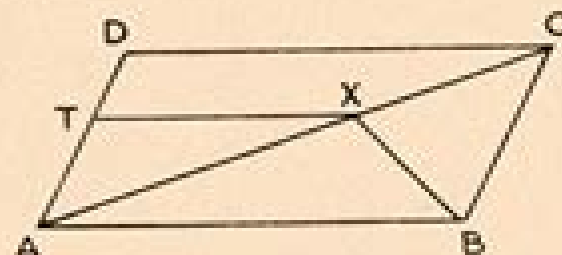


Fig. 1

(ii) In Fig. 1, $ABCD$ is a parallelogram, BX bisects the angle ABC and TX is parallel to AB . Given that $AT = 5$ in. and $TD = 2$ in., calculate the length of AB .

SECTION B

Answer THREE questions only in this section.

6. (i) Six cylindrical tins, each having a circular base of diameter 3 in. and each of height 5 in., are packed into a rectangular box whose internal measurements are 6 in. by 8 in. by 10 in. Calculate the volume of sawdust required to fill the remainder of the box. Give your answer in cu. in. and take π as 3 $\frac{1}{2}$.

(ii) ABC is an isosceles triangle in which $AB = AC$. AB is produced to P so that B is the mid-point of AP . BC is produced to Q so that C is the mid-point of BQ . PC produced meets AQ at X . Prove that

(a) $AQ = CP$,

(b) $CX = XQ$.

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Emilie Sanchez



O Level Maths Exam Papers 1981:

Teaching Mathematics Michelle Selinger,1994 In this reader maths teachers in the early years of their careers will find a concise yet comprehensive guide to developments in mathematics teaching in secondary schools and the controversies which currently surround it After a brief summary of the historical context a series of short articles provides a range of perspectives on various issues of current debate which will help new teachers in the development of their own teaching styles These include the impact of computers and calculators in maths teaching the various arguments about the use of published schemes and for more investigational approaches to the curriculum and the way in which social and cultural factors can be approached through the teaching of various topics in mathematics The final section looks at how teachers might continue their professional development through action research in their own classrooms **Resources in Education** ,1987

Elasticity and Toughness Feng Wei,2021-12-30 This book examines minban teacher policies and their implementation in China between 1949 and 2000 when rural areas were in severe shortage of qualified teachers During this period of time minban teachers made great contributions to education doing the same work as state employed school teachers while receiving much lower salaries due to non official status With solid fieldwork on oral history of minban teachers and policy actors and deep examination of a wealth of policy documents in private and governmental archives the author records the life history of minban teachers the process of minban teacher policies and the interaction between policies and individual strategies in M county pseudonym located in northern Jiangsu province of China The book reveals many interesting and sometimes surprising findings about the characteristics of educational policy implementation in China While China s minban teacher policies have come to an end rural education continues to be a major concern of policymakers and researchers alike The book is an important piece of scholarship for the readers interested in rural education in China and in how state society and culture interact to influence teacher policies and management in the Chinese context Kenya National Bibliography

Kenya National Library Service. National Reference & Bibliographic Department,1983 **Handbook of Research on Mathematics Teaching and Learning** Douglas Grouws,2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook s twenty nine chapters are complete resources for both current and past work in that particular area **The British National Bibliography** Arthur James Wells,1996

Teaching Mathematics in the Secondary School Paul Chambers,Robert Timlin,2019-02-25 This fully updated third edition

looks at the fundamentals of mathematics teaching how to plan lessons and assess learning and how to promote an inclusive approach in the classroom Key new features include Updated content reflecting the 2014 National Curriculum in England the Teachers Standards and revised requirements for GCSE and A level mathematics Updated Evidence from research features highlighting developments in the field An expanded section on mathematical misconceptions New coverage on teaching for mastery

Assessment and Learning Edward Conrad Wragg,1997 The assessment of what children have learned has become an important issue in education in the last few years and this book addresses both formal and informal ways of assessing children s work and progress The inclusion of practical activities discussion topics photographs cartoons and case examples makes this a very user friendly book for both trainee and experienced teachers in primary and secondary schools

Adults' Mathematical Thinking and Emotions Jeff Evans,2002-01-04 The crisis around teaching and learning of mathematics and its use in everyday life and work relate to a number of issues These include The doubtful transferability of school maths to real life contexts the declining participation in A level and higher education maths courses the apparent exclusion of some groups such as women and the aversion of many people to maths This book addresses these issues by considering a number of key problems in maths education and numeracy differences among social groups especially those related to gender and social class the inseparability of cognition and emotion in mathematical activity the understanding of maths anxiety in traditional psychological psychoanalytical and feminist theories how adults numerate thinking and performance must be understood in context The author s findings have practical applications in education and training such as clarifying problems of the transfer of learning and of countering maths anxiety

Guide to Information Sources in Mathematics and Statistics Martha A. Tucker,Nancy D. Anderson,2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free

CCCS Selected Working Papers Ann Gray,Jan Campbell,Mark Erickson,Stuart Hanson,Helen Wood,2007-11-07 This collection of classic essays focuses on the theoretical frameworks that informed the work of the Centre for Contemporary Cultural Studies at the University of Birmingham the methodologies and working practices that the Centre developed for conducting academic research and examples of the studies carried out under

the auspices of the Centre This volume is split into seven thematic sections that are introduced by key academics working in the field of cultural studies and includes a preface by eminent scholar Stuart Hall The thematic sections are Literature and Society Popular Culture and Youth Subculture Media Women s Studies and Feminism Race History Education and Work

How to Be a Writer Marcus Berkman,2022-06-07 Marcus Berkman has been a freelance writer since 1988 working for newspapers and magazines and occasionally writing a book like this one He reckons to have written literally millions of words in that time several of them in the right order This his 13th or possibly 14th book is about those years of writing the triumphs few the heartbreaks many the sackings more than you would expect the biscuits many many more than you would expect In it he somehow makes the act of staring out of a window wondering what to say next seem both fascinating and in some strange way enviable whereas like most writers he rarely leaves the house other than to go to the pub or the off licence Often asked how you become a writer his advice remains Please do not There s already enough competition out there and we don t need any more His advance for this book was about enough to buy a packet of Jaffa Cakes *Masculinities In Mathematics* Mendick, Heather,2006-06-01 We desperately need more people with good mathematical qualifications to fill many posts in numerate occupations yet the numbers choosing to continue studying mathematics have fallen over the last 10 years This book is important as it investigates how mathematics is aligned with masculinity and hence is not attractive to a significant part of the population It is also challenging scholarly and a thoroughly good read It reports the results of carefully designed research on gender and choice and includes some fascinating individual case studies It should make us all reflect on what we are doing and how we can repair the damage Margaret Brown Professor of Mathematical Education King s College London The book speaks to me as one of those texts that will become seminal in mathematics education It is original refreshing and despite a complicated plot points to some ways forward It is engagingly written if at times perhaps a little bit no nonsense in tone It will be of interest to teachers and teacher educators as well as providing a theoretical stance that should inform future research British Educational Research Journal The study of mathematics together with other gendered subjects such as science and engineering usually attracts more male than female pupils particularly at more advanced levels In this book Heather Mendick explores this phenomenon addressing the important question of why more boys than girls choose to study mathematics She combines new research with an original theoretical approach to argue that doing mathematics is doing masculinity The book illuminates what studying mathematics means for both students and teachers and offers a broad range of insights into students views and practices In addition to the words of young people learning mathematics the masculinity of mathematics is explored through historical material and cinematic representations Heather Mendick discusses the ways in which the alignment of mathematics with masculinity creates tensions for girls and women doing the subject These tensions are sensitively explored through interviews with young men and women to show how doing mathematics fits or conflicts with their gender identities Finally the book explores the implications for teachers including

ways to promote gender equity in mathematics education This is key reading for students on courses in gender and education mathematics education gender and curriculum and social justice Equality and Freedom in Education Brian Holmes, 2022-02-26 First published in 1985 Equality and Freedom in Education investigates the extent to which it is possible or desirable to provide equal opportunities in education regardless of age sex race language and social class Attempts to make such provision regularly attract the criticism that they remove the freedom of parents and religious bodies to educate children in accordance with their particular wishes To understand this dilemma the book analyses the educational systems and practices in England and Wales France the USA the USSR China and Japan Information about each system is provided in accordance with a taxonomy developed by Professor Holmes for the International Bureau of Education in Geneva and widely accepted by Ministries of Education throughout the world Simplified diagrams show how school systems are organised and how children pass through the school system and essential statistical information taken from UNESCO sources is also provided The book will be of interest to students of education and sociology *Secondary Education Journal* ,1982

Mathematics Education and Culture Alan Bishop, 1988-07-31 Paper Qualification Syndrome (PQS) and Unemployment of School Leavers John Oxenham, 1982 **Girls and Physics** Sandra Johnson, Great Britain. Dept. of Education and Science. Assessment of Performance Unit, 1986 *Scientific and Technical Aerospace Reports* ,1994-08 *Journal for Research in Mathematics Education* ,1989

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