Name: _____ Class: _____ Date: _____

Secondary 3 Additional Mathematics
WA1 Mock Paper

Topic: Quadratic Functions, Equations & Inequalities

Duration:　　60 mins

40

Quadratic Functions

1	(a) A dolphin jumps out of the water during a dolphin show. The height, y m, of the dolphin is given by $y = -4.5t^2 + 9t$, where t is the time in seconds after the dolphin jumps out of the water.	
	(i)　Express $y = -4.5t^2 + 9t$ in the form $y = a(t - h)^2 + k$.	[2]
	(ii)　How long did it take the dolphin to reach the maximum height and what is the maximum height?	[2] [2]
	(iii)　Find the range of values of t where the height of the dolphin is at least 3.375 m.	[4]

Quadratic Inequalities

1	Find the set of values of x for which $(2 + 3x)(x - 5) > 2 + 3x$.	[3]
2	Find the range of values of x where the curve $y = \frac{6 - x^2}{4x^2 - 12x + 9}$ is below the x–axis.	[4]

Nature of Roots (Finding Unknown Value)

1	(a) The equation of a curve is $y = px^2 - 4x + 16p$. Find the range of values of p given that the curve lies completely above the x-axis.	[4]
	(b) Find the value of h for which the line $y = 2x + h$ is a tangent to the curve $y = 2x^2 - 6x + 5$.	[4]
2	Determine the range of values of k such that the curve $y = 3x^2 + k^2 - k - 3$ intersects the line $y = 3kx$ at two distinct points.	[4]

Nature of Roots (Proving)

1	(a) Show that the equation $x^2 + 2(m - 1)x + (2m - 3) = 0$ has real roots for all real values of x.	[3]
	(b) Explain why the quadratic expression $-x^2 + 3x - 4$ is always negative.	[3]

Simultaneous Equation

1	Find the coordinates of the points of intersection of the curve $x^2 - xy + y^2 = 16$ and the line $2x - 3y = 4$.	[5]

Maths For Wa 1 Homework

Katrin Zwirglmaier

Maths For Wa 1 Homework:

   Maths for WA 1 David Barton,Fiona Louis,Paula McMahon,Anne Wilson,2007 The Homework book provides a complete homework program directly linked to the Coursebook Product description   **Key Maths GCSE** David Baker,2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets   **Basic Japanese Kanji Volume 1** Timothy G. Stout,Kaori Hakone,2014-06-17 This is an invaluable study guide for learning basic Japanese characters Basic Japanese Kanji Volume 1 is your introduction to the first 205 of the 410 core characters in Japanese plus 18 additional kanji that serve as building blocks These kanji are the most frequently used in newspapers conversations and the top college level beginning Japanese textbooks Using a focused combination of proven traditional methods and unique new methods this book will help independent learners and university or high school students to write read speak and use Japanese better Basic Japanese Kanji makes studying easier by using a combination of proven traditional methods and unique new methods to learn kanji Clear explanations of the kanji example compounds useful vocabulary and extensive writing practice Hundreds of readings with comprehension questions similar in format to those on many important national and international Japanese exams Additional natural and level appropriate exercises Original mnemonics for every kanji Key features of the downloadable CD content Interactive software offers exam quality practice Gives instant feedback correction Extensive kanji exercises Reading comprehension passages and questions A set of printable kanji flash cards for on the go practice   **Key Maths GCSE** ,2002 These Teacher Files are designed to supplement and support the material covered at GCSE   *Math Phonics - Multiplication & Division (eBook)* Marilyn B. Hein,2002-03-01 A specially designed program using rules patterns and memory techniques similar to those found in language arts to teach difficult math concepts to children This bonus book contains 10 all new lesson plans including worksheets take home pages assessment pages and a variety of support materials to teach multiplication and division   *Teacher File Year 8/1* David Baker,2001 These resources provide invaluable support within the Key Maths series for all mathematics teachers whether specialists or non specialist experienced or new to the profession   *Strengths-Based Teaching and Learning in Mathematics* Beth McCord Kobett,Karen S. Karp,2020-02-27 This book is a game changer Strengths Based Teaching and Learning in Mathematics 5 Teaching Turnarounds for Grades K 6 goes beyond simply providing information by sharing a pathway for changing practice Focusing on our students strengths should be routine and can be lost in the day to day teaching demands A teacher using these approaches can change the trajectory of students lives forever All teachers need this resource Connie S Schrock Emporia State University National Council of Supervisors of Mathematics President 2017 2019 NEW COVID RESOURCES ADDED A Parent s Toolkit to Strengths Based Learning in Math is now available on the book s companion website to support families engaged in math learning at home This toolkit provides

a variety of home based activities and games for families to engage in together Your game plan for unlocking mathematics by focusing on students strengths We often evaluate student thinking and their work from a deficit point of view particularly in mathematics where many teachers have been taught that their role is to diagnose and eradicate students misconceptions But what if instead of focusing on what students don t know or haven t mastered we identify their mathematical strengths and build next instructional steps on students points of power Beth McCord Kobett and Karen S Karp answer this question and others by highlighting five key teaching turnarounds for improving students mathematics learning identify teaching strengths discover and leverage students strengths design instruction from a strengths based perspective help students identify their points of power and promote strengths in the school community and at home Each chapter provides opportunities to stop and consider current practice reflect and transfer practice while also sharing Downloadable resources activities and tools Examples of student work within Grades K 6 Real teachers notes and reflections for discussion It s time to turn around our approach to mathematics instruction end deficit thinking and nurture each student s mathematical strengths by emphasizing what makes them each unique and powerful   Handbook of Scheduling Joseph Y-T. Leung,2004-04-27 Researchers in management industrial engineering operations and computer science have intensely studied scheduling for more than 50 years resulting in an astounding body of knowledge in this field Handbook of Scheduling Algorithms Models and Performance Analysis the first handbook on scheduling provides full coverage of the most recent and advanced topics on the subject It assembles researchers from all relevant disciplines in order to facilitate cross fertilization and create new scheduling insights The book comprises six major parts each of which breaks down into smaller chapters Part I introduces materials and notation with tutorials on complexity theory and algorithms for the minimization of makespan total completion time dual objectives maximum lateness the number of late jobs and total tardiness Part II is devoted to classical scheduling problems Part III explores scheduling models that originate in computer science operations research and management science Part IV examines scheduling problems that arise in real time systems focusing on meeting hard deadline constraints while maximizing machine utilization Part V discusses stochastic scheduling and queueing networks highlighting jobs that are not deterministic Part VI covers applications discussing scheduling problems in airline process and transportation industries as well as in hospitals and educational institutions   Nonlinear Assignment Problems Panos M. Pardalos,L.S. Pitsoulis,2013-03-09 Nonlinear Assignment Problems NAPs are natural extensions of the classic Linear Assignment Problem and despite the efforts of many researchers over the past three decades they still remain some of the hardest combinatorial optimization problems to solve exactly The purpose of this book is to provide in a single volume major algorithmic aspects and applications of NAPs as contributed by leading international experts The chapters included in this book are concerned with major applications and the latest algorithmic solution approaches for NAPs Approximation algorithms polyhedral methods semidefinite programming approaches and heuristic procedures for NAPs are included while applications of this

problem class in the areas of multiple target tracking in the context of military surveillance systems of experimental high energy physics and of parallel processing are presented Audience Researchers and graduate students in the areas of combinatorial optimization mathematical programming operations research physics and computer science **Two Decades of TEL. From Lessons Learnt to Challenges Ahead** Kairit Tammets,Sergey Sosnovsky,Rafael Ferreira Mello,Gerti Pishtari,Tanya Nazaretsky,2025-09-01 The two volume set LNCS 16063 16064 constitutes the proceedings of 20th European Conference on Technology Enhanced Learning EC TEL 2025 which took place in Newcastle upon Tyne and Durham UK September 2025 The total of 43 full papers including 37 research papers 4 blue sky and 2 industry papers as well as 16 demos and 32 posters papers presented in EC TEL 2025 proceedings was carefully reviewed and selected from 195 submissions They focus on all aspects of dynamic interdisciplinary field bridging pedagogy educational psychology and digital technology *Resources in Education* ,2001-10 **Quadratic Assignment and Related Problems** Panos M. Pardalos,Henry Wolkowicz,1994-01-01 The methods described here include eigenvalue estimates and reduction techniques for lower bounds parallelization genetic algorithms polyhedral approaches greedy and adaptive search algorithms

Teaching Secondary and Middle School Mathematics Daniel J. Brahier,2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM s just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author s 35 year experience as an educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With

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bibliography ,1961

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