



This memorandum consists of 9 pages.

Important Information:

- This is a marking guideline. In instances where learners have used different but mathematically sound strategies to solve the problems they (learners) should be credited.
- Unless stated otherwise, learners who give a correct answer only, should be awarded full marks.
- Underline errors committed by learners and apply Consistent Accuracy (CA) marking.
- Do not penalise learners if units of measurement are omitted.

KEY	
M	Method mark
CA	Consistent Accuracy mark
A	Accuracy mark

QUESTION 1

1.	1.1	D	1.2	C	1.3	B	1.4	A	1.5	D	Give 1 mark for each correct answer.	[10]
	1.6	C	1.7	C	1.8	D	1.9	B	1.10	D		

QUESTION 2

2.1	2.07×10^{-7} ✓A		Answer: 1 mark	[1]
2.2.1	$\sqrt[3]{73 - (-3)^2} = \sqrt[3]{73 - 9}$ $= \sqrt[3]{64}$ ✓M $= 4$ ✓CA		Calculation: 1 mark Answer: 1 mark (Answer only: 1 mark) (If the answer is a decimal number, no mark.)	[2]
2.2.2	$\sqrt{100} < \sqrt{110} < \sqrt{121}$ ✓M $10 < \sqrt{110} < 11$ ✓A		$\sqrt{100}$ and $\sqrt{121}$: 1 mark Answer: 1 mark (Answer only: 1 mark)	[2]
2.2.3	$\frac{3 \times 5^3}{5^2} = 3 \times 5^1$ ✓M $= 75$ ✓CA		Applying exponential law: 1 mark Answer: 1 mark (Answer only: 1 mark)	[2]
2.3	$1.03 \times 10^{-2} + 3.8 \times 10^{-3}$ $= 0.0103 + 0.0038$ ✓M $= 0.0141$ ✓CA		Simplification: 1 mark Answer: 1 mark (Answer only: 1 mark)	[2] [9]
	or		or	
	$= 10^{-2}(1.03 + 0.38)$ ✓M $= 10^{-2}(1.41)$ $= 0.0141$ ✓CA	or	$= 10^{-2}(1.03 + 3.8)$ ✓M $= 10^{-2}(14.1)$ $= 0.0141$ ✓CA	
			Taking out common factor: 1 mark Answer: 1 mark (Answer only: 1 mark)	

Mathematics Exemplar 2014

**Rocco Palumbo, Stefania
D'Ascenzo, Luca Tommasi**



Mathematics Exemplar 2014:

Teaching 6-12 Math Intervention Juliana Tapper, 2024-12-30 This practical resource offers a classroom tested framework for secondary math teachers to support students who struggle Teachers will explore an often overlooked piece of the math achievement puzzle the gatekeeping cycles of mathematics and the importance of teachers own expectations of students The immediately applicable strategies in this book developed through the author s work as a math intervention teacher intervention specialist and instructional coach will give teachers the tools to help students overcome math anxiety retention struggles and even apathy Beginning with a deep dive into the gatekeeping cycles to help teachers better understand their students who struggle the book then walks teachers through the five part B R E A K it™ Math Intervention Framework Build Community Routines to Boost Confidence Engage Every Student Advance Your Expectations Know Students Level of Understanding Educational research personal anecdotes from the author s own classroom and examples from case study teachers are woven into each chapter leading to clear action items planning strategies and best practices that are accessible enough to accommodate all grade levels and schedules The framework and activities in this book enable teachers to help students overcome math anxiety create a safe math environment for 6 12 students and ultimately increase achievement with effective research based suggestions for working with students who struggle Find additional resources at www.gatebreakerbook.com

Excellence in University Assessment David Carless, 2015-04-24 Assessment in higher education is an area of intense current interest not least due to its central role in student learning processes Excellence in University Assessment is a pioneering text which contributes to the theory and practice of assessment through detailed discussion and analysis of award winning teaching across multiple disciplines It provides inspiration and strategies for higher education practitioners to improve their understanding and practice of assessment The book uses an innovative model of learning oriented assessment to analyze the practice of university teachers who have been recipients of teaching awards for excellence It critically scrutinizes their methods in context in order to develop key insights into effective teaching learning and assessment processes Pivotal topics include Competing priorities in assessment and ways of tackling them The nature of quality assessment task design The student experience of assessment Promoting student engagement with feedback An indispensable contribution to assessment in higher education Excellence in University Assessment is a valuable guide for university leaders middle managers staff developers teachers and researchers interested in the crucial topic of assessment

High-Level Adaptation and Aftereffects Rocco Palumbo, Stefania D'Ascenzo, Luca Tommasi, 2017-04-28 Aftereffects generally occur after a prolonged exposure adaptation to a first stimulus possessing one given property followed by presentation of a stimulus bearing a neutral value of that property The aftereffect consists in a change in appearance of the neutral stimulus following the adapter compared to the appearance of the neutral stimulus when it is perceived without any previous exposure to the adapter The transient phenomena of perceptual aftereffects are believed to depend on the

activation of neuron populations that respond selectively to a given property of the stimuli Studying how adaptation occurs which stimulus properties are sensitive to it which timings are necessary whether individual differences modulate its occurrence has thus become an indirect way to probe the plasticity of sensory functions in the nervous system recently extending to more cognitive and representational aspects of neural coding In the last two decades indeed it has been demonstrated that aftereffects occur not only for low level properties of stimuli such as motion color or orientation but also for high level properties Many studies have proven that high level proprieties of the stimuli e g gender identity ethnicity or age of a face or a voice are sensitive to this phenomenon It has been shown for example that the prolonged exposure to a female or male face produces a gender misperception in the opposite direction when an androgynous face is shown after the adapter Furthermore recent studies have also shown that aftereffects are not strictly contingent upon the physical features that make up stimuli but they seem to run across the high level proprieties subjects are adapted to These evidences are supported by cross category adaptation studies which underlie how aftereffects occur even across stimuli that do not share physical features e g bodies and faces but that instead share common higher level properties such as gender Given the growing body of research focused on adaptation and aftereffects in high level perception at the boundaries with perceptual learning attention and cognition the purpose of this topic is to provide a picture of the state of the art relative to the specific phenomena of adaptation in high level perceptual processing

The Routledge Handbook of Chinese Interpreting

Riccardo Moratto, Cheng Zhan, 2024-11-29 This Handbook sheds light on the current trends in interpretation research with a particular focus on China and Chinese interpreting Over the years the field of Chinese interpreting has experienced remarkable growth not only in terms of market demand but also in research trends within the discipline of translation studies In China specifically interpretation studies have been at the forefront of developments in pioneering new approaches and methodologies The chapters in this Handbook delve into various aspects of interpretation research encompassing both theoretical frameworks and practical applications From examining the intricacies of consecutive and simultaneous interpretation to exploring the role of technology in shaping the future of the profession the contributors offer valuable insights into the advancements and challenges within Chinese interpreting By showcasing the latest research trends and sharing valuable experiences from renowned scholars and practitioners this collection contributes to the ongoing dialogue surrounding interpretation studies This Handbook is a comprehensive resource for academics researchers students and professionals seeking to deepen their understanding of Chinese interpreting and its evolving landscape

Sound structure and sound change Rebecca Morley, 2019 Research in linguistics as in most other scientific domains is usually approached in a modular way narrowing the domain of inquiry in order to allow for increased depth of study This is necessary and productive for a topic as wide ranging and complex as human language However precisely because language is a complex system tied to perception learning memory and social organization the assumption of modularity can also be an obstacle to

understanding language at a deeper level This book examines the consequences of enforcing non modularity along two dimensions the temporal and the cognitive Along the temporal dimension synchronic and diachronic domains are linked by the requirement that sound changes must lead to viable stable language states Along the cognitive dimension sound change and variation are linked to speech perception and production by requiring non trivial transformations between acoustic and articulatory representations The methodological focus of this work is on computational modeling By formalising and implementing theoretical accounts modeling can expose theoretical gaps and covert assumptions To do so it is necessary to formally assess the functional equivalence of specific implementational choices as well as their mapping to theoretical structures This book applies this analytic approach to a series of implemented models of sound change As theoretical inconsistencies are discovered possible solutions are proposed incrementally constructing a set of sufficient properties for a working model Because internal theoretical consistency is enforced this model corresponds to an explanatorily adequate theory And because explicit links between modules are required this is a theory not only of sound change but of many aspects of phonological competence The book highlights two aspects of modeling work that receive relatively little attention the formal mapping from model to theory and the scalability of demonstration models Focusing on these aspects of modeling makes it clear that any theory of sound change in the specific is impossible without a more general theory of language of the relationship between perception and production the relationship between phonetics and phonology the learning of linguistic units and the nature of underlying representations Theories of sound change that do not explicitly address these aspects of language are making tacit untested assumptions about their properties Addressing so many aspects of language may seem to complicate the linguist's task However as this book shows it actually helps impose boundary conditions of ecological validity that reduce the theoretical search space

Reconceptualising Maths and Science Teaching and Learning

Stephen Dinham, Russell Tytler, David Hoxley, Deborah Corrigan, 2017-11-01 How do we enable young people to imagine themselves as the next generation of STEM professionals How do we do this in a way that engages the desire to learn and explore In Australia there is increasing concern at the declining participation in advanced level school mathematics and physical sciences fewer students electing to study STEM programs at university and evidence of declining performance of Australian students on international comparative tests in mathematics and science This timely book highlights the need to reconceptualise Maths and Science Teacher Education Programs ReMSTEP in order to revitalise maths and science teaching approaches within primary and secondary schools Through a series of seven innovations such as offering maths and science specialisations within primary pre service teaching programs or creating opportunities to connect scientists and mathematicians with both pre service teachers and practitioners in developing activities for school contexts ReMSTEP recognises that teacher graduates are powerful change agents for making maths and science curricula more engaging challenging and relevant for primary and secondary students This substantively researched text based on ReMSTEP's

extensive trialling and exhaustive consultation with researchers and practitioners alike enriches the debate on the educational relevance of maths and science and is a crucial reference for educational decision makers lecturers and pre service teachers and school leaders Part A examines the challenges around science and maths education Part B explores through case studies the seven ReMSTEP innovations around which the activities were organised Part C provides an overview of the impacts of the innovations and explores the implications of the findings

A Platonic Theory of Moral Education Mark Jonas, Yoshiaki Nakazawa, 2020-09-30 Discussing Plato's views on knowledge recollection dialogue and epiphany this ambitious volume offers a systematic analysis of the ways that Platonic approaches to education can help students navigate today's increasingly complex moral environment Though interest in Platonic education may have waned due to a perceived view of Platonic scholarship as wholly impractical this volume addresses common misunderstandings of Plato's work and highlights the contemporary relevance of Plato's ideas to contemporary moral education Building on philosophical interpretations the book argues persuasively that educators might employ Platonic themes and dialogue in the classroom Split into two parts the book looks first to contextualise Plato's theory of moral education within political ethical and educational frameworks Equipped with this knowledge part two then offers contemporary educators the strategies needed for implementing Plato's educational theory within the pluralistic democratic classroom setting A Platonic Theory of Moral Education will be of interest to academics researchers and post graduate students in the fields of ethics Plato scholarship moral psychology educational foundations and the philosophy of education This book would also benefit graduate students and scholars in teacher education Mark E Jonas is Professor of Education and Professor of Philosophy by courtesy at Wheaton College US Yoshiaki Nakazawa is Assistant Professor of Education at University of Dallas US

[Imagine Math 6](#) Michele Emmer, Marco Abate, 2018-11-06 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine combining music art poetry literature architecture and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour Imagination and mathematics imagination and culture culture and mathematics This sixth volume in the series begins with a homage to the architect Zaha Hadid who died on March 31st 2016 a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice where all the Mathematics and Culture conferences have taken place in the last years A large section of the book is dedicated to literature narrative and mathematics including a contribution from Simon Singh It discusses the role of media in mathematics including museums of science journals and movies Mathematics and applications including blood circulation and preventing crimes using earthquakes is also addressed while a section on mathematics and art examines the role of math in design A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge Discussing all topics in a way that is rigorous but captivating detailed but full of evocations it offers an all embracing look at the world of

mathematics and culture **Promoting Equity in Approximations of Practice for Mathematics Teachers** Wilkerson Lee, Carrie, Bondurant, Liza, Sapkota, Bima, Howell, Heather, 2024-11-07 Within the field of mathematics teacher education a profound challenge echoes the persistent gap between theoretical understanding and practical application This lingering divide raises a critical concern one that finds its focus in the exploration of transformative tools known as approximations of practice These tools aim to provide a realistic and contextualized environment for PSTs to cultivate their teaching skills However the broader often overlooked issue permeating this educational terrain is the question of equity in mathematics instruction an issue that this book endeavors to unravel and reshape positioning equity at the forefront of pedagogical considerations *Promoting Equity in Approximations of Practice for Mathematics Teachers* a compelling work that not only delves into the transformative role of approximations but also champions equity as a cornerstone in reshaping the landscape of mathematics education This groundbreaking work has a dual objective firstly to furnish mathematics teacher educators and researchers with a comprehensive overview of the current landscape of approximations in mathematics education It moves beyond a mere survey encouraging readers to critically analyze frameworks and design choices that either foreground or dismiss equity in these pedagogical spaces Divided into three sections the book delves into the spectrum of work characterizing approximations in mathematics teacher education The first section surveys diverse approaches acknowledging the current lack of focus on equity The second section critically examines the intersection of equity and approximations fostering collaborations between experts in mathematics education and equity focused researchers The third section takes a forward looking stance envisioning the future of equity focused approximations in mathematics education **New Directions for Mathematics Education Research on Proving** Keith Weber, Miloš Savić, 2025-08-03 This book summarizes new directions in mathematics education research on proving at the university level thereby providing contemporary extensions of the sub fields of proof that Annie and John Selden introduced to the field The chapters each describe an emerging new area of proof research review the relevant findings in this area present open research questions and the tools to address them The book also discusses proof as a literary genre and how students feelings during the proof writing process can influence their behavior The concluding chapter of the book reflects on new directions for research on proving As such this book provides mathematics educators who have extensive experience researching proof with an up to date review of the new methodologies and research questions with regard to proof and young scholars interested in proof can use these chapters as primers on which they can build a research program *Developing Writing Skills for IELTS* Sin Wang Chong, Xuejun Ye, 2020-12-29 An essential companion for IELTS writing instructors and students *Developing Writing Skills for IELTS* provides IELTS test takers with the necessary skills to succeed in the two academic writing tasks in IELTS Adopting an original exemplar based writing instructional approach this text offers an in depth and reader friendly analysis of the assessment standards of the two academic writing tasks in IELTS Authentic exemplars written by EFL university students are

included to illustrate high Bands 8 9 average Bands 6 7 and low Bands 4 5 performances in IELTS writing Key Features Diagrammatical representation of assessment standards of the two academic writing tasks by experienced IELTS writing examiners and instructors 100 writing questions modelled after the IELTS format designed by the authors and categorised according to question types and topics that emerge from an analysis of over 400 IELTS writing questions Over 100 writing exemplars by EFL university students accompanied by guided activities and suggested answers Designed as a classroom text a resource for workshops and consultations or a self study material Developing Writing Skills for IELTS A Research based Approach will support IELTS writing instructors and test takers with a variety of writing proficiencies Self-Help to ISC Understanding Mathematics (Solutions of M.L. Aggarwal) - 12 Munish Sethi,I.S. Chawla, Solutions of M L Aggarwal For 2022 Examinations ISC Understanding Mathematics For 2022 Examinations I S C Understanding Mathematics For 2022 Examinations *Research in Mathematics Education in Australasia 2012-2015* Katie Makar,Shelley Dole,Jana Visnovska,Merrilyn Goos,Anne Bennison,Kym Fry,2016-06-02 With the ninth edition of the four yearly review of mathematics education research in Australasia the Mathematics Education Research Group of Australasia MERGA discusses the Australasian research in mathematics education in the four years from 2012 2015 This review aims to critically promote quality research and focus on the building of research capacity in Australasia **Modern Mathematics** Dirk De Bock,2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many mathematics educators and education historians as the most historically important development in curricula of the twentieth century It attracted the attention of local and international politicians of teachers and of parents and influenced the teaching and learning of mathematics at all levels kindergarten to college graduate in many nations After garnering much initial support it began to attract criticism But as Bill Jacob and the late Jerry Becker show in Chapter 17 some of the effects became entrenched This volume edited by Professor Dirk De Bock of Belgium provides an outstanding overview of the New Math modern mathematics movement Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations The first few chapters show how the initial leadership came from mathematicians in European nations and in the United States of America The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki In the United States there emerged during the 1950s various attempts to improve U S mathematics curricula and teaching especially in secondary schools and colleges This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik the first satellite Undoubtedly this is a landmark publication in education The foreword was written by Professor Bob Moon one of a few other scholars to have written on the New Math from an international perspective The final epilogue chapter by Professor Geert Vanpaemel a historian draws together the overall thrust of the volume and makes links with the general history of curriculum development

especially in science education including recent globalization trends

The Personality of Math Paul A. Wagner, Frank Fair, 2022-06-06 If our goal is to broaden and deepen students awareness and understanding of mathematics we advance the idea that engaging students with what we metaphorically call the personality of math That is we think that students who engage with the math s 1 human champions 2 with its history and philosophy and 3 with the nature of its problems and inferential challenges are more likely to have a positive attitude toward math that will encourage greater learning

STEM Education 2.0 Alpaslan Sahin, Margaret J. Mohr-Schroeder, 2019-08-12 STEM Education 2 0 discusses the most recent research on important selected K 12 STEM topics by synthesizing previous research and offering new research questions The contributions range from analysis of key STEM issues that have been studied for more than two decades to topics that have more recently become popular such as maker space and robotics In each chapter nationally and internationally known STEM experts review key literature in the field share findings of their own research with its implications for K 12 STEM education and finally offer future research areas and questions in the respected area they have been studying This volume provides diverse and leading voices in the future of STEM education and STEM education research

Global Perspectives and Practices for Reform-Based Mathematics Teaching Kartal, Ozgul, Popovic, Gorjana, Morrissey, Susie, 2022-04-22 Reform based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning concepts and procedures using instructional practices that build on students informal knowledge of mathematics It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem solving Further study on the best practices benefits and challenges of implementing this teaching into education is required Global Perspectives and Practices for Reform Based Mathematics Teaching explores international perspectives on diverse reform based practices in teaching and learning mathematics describes challenges and issues for teachers and teacher educators promotes reflection and academic discussion at various levels and in various educational systems and raises questions for the field of mathematics education Covering a range of topics such as teacher preparation programs and integrated learning spaces this reference work is ideal for academicians practitioners researchers instructors educators and students

Oswaal NTA CUET (UG) Question Bank Quantitative Aptitude, General Awareness & Logical Reasoning (Set of 3 Books)(Entrance Exam Preparation Book 2024) Oswaal Editorial Board, 2023-09-26 Description of the product 100% Exam Ready With 2023 CUET UG Exam Papers 2 Slots Fully Solved with Explanations Fill Learning Gaps With Revision Notes Chapter Analysis Crisp Recap with Smart Mind Maps Concept Videos Smart Shortcuts To Solve lengthy problems Final Boost With Tips Tricks to ACE CUET UG in 1 st Attempt

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