

**HAWASSA UNIVERSITY**  
**Collage of Natural and Computational Science**  
**Department of Mathematics**

**Work sheet -I**  
**Basic Mathematics for Natural Sciences (2014EC)**

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- Show that the following propositions are equivalent
  - $(P \implies Q) \text{ and } \neg P \vee Q$
  - $P \text{ and } P \wedge (Q \vee \neg Q)$
- For statements  $p, q$ , and  $r$ , show that the following compound statements are tautology.
  - $(p \wedge (p \implies q)) \implies q$ .
  - $((p \implies q) \wedge (q \implies r)) \implies (p \implies r)$ .
- Let  $p$  and  $q$  be statements. Which of the following implies that  $p \vee q$  is false?
  - $\neg p \vee \neg q$  is false.
  - $\neg p \vee q$  is true.
  - $p \implies q$  is true.
  - $p \wedge \neg q$  is true.
- Suppose that the statements  $P, Q, R$ , and  $S$  are assigned the truth values  $T, F, F$ , and  $T$ , respectively. Find the truth value of each of the following statements
  - $R \implies (S \wedge P)$
  - $P \implies (R \implies S)$ .
  - $Q \wedge \neg S \implies (P \iff S)$ .
  - $(R \wedge S) \implies (P \implies \neg Q \vee S)$
- If the value of  $P \implies Q$  is  $F$ , then what is the truth value of  $(\neg P \wedge Q) \iff (P \vee Q)$ ?
  - If the value of  $P \iff Q$  is  $T$ , then what is the truth value of  $P \iff \neg Q$  and  $\neg P \iff Q$ ?
  - If the value of  $P \iff Q$  is  $F$ , then what is the truth value of  $P \iff \neg Q$  and  $\neg P \iff Q$ ?
- Find the truth value of following compound statements using the given information.
  - $(p \implies q) \implies r$ , where  $r = T$ .
  - $\neg(p \vee q) \iff (\neg p \wedge \neg q)$ , where  $p \vee q = T$ .
  - $(p \wedge q) \implies (p \vee s)$ , where  $p = T$ .
  - $p \vee (q \implies r)$ , where  $r = T$ .
  - $(p \implies q) \implies (\neg q \implies \neg p)$ , where  $q = T$ .
- Let  $P(x, y): \frac{x}{y} < 1$ , where the domain of  $x$  is  $A = \{2, 3, 5\}$  and the domain of  $y$  is  $B = \{2, 4, 6\}$ . Then determine the truth value of the following quantified statement.
  - $(\forall x \in A)(\exists y \in B)P(x, y)$ .
  - $(\exists x \in A)(\exists y \in B)P(x, y)$ .
  - $(\exists y \in B)(\forall x \in A)P(x, y)$
- Determine the truth value of the following statements.
  - $(\exists x \in \mathbb{R})(x^2 - x = 0)$ .
  - $(\forall x \in \mathbb{N})(x + 1 \geq 2)$ .
  - $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$ .
  - $(\exists x \in \mathbb{Q})(3x^2 - 27 = 0)$ .
  - $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$ .
  - $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$
  - $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x + y = 5)$
  - $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
- Investigate the validity of the following argument forms using truth table method.
  - $\neg p \implies \neg q, q \vdash p$ .
  - $p \implies \neg p, p, r \implies q \vdash \neg r$ .
  - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$ .
- Investigate the validity of the following argument forms using formal proof (rule of inference)
  - $\neg p \implies \neg q, q \vdash p$ .
  - $p \implies \neg q, p, r \implies q \vdash \neg r$ .
  - $\neg r \wedge \neg s, (\neg s \implies p) \implies r \vdash \neg p$ .
  - $\neg q \implies \neg p, r \implies p, \neg q \vdash r$ .
  - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$ .

# Nmacmilla Mathematic Question And Answer 2014

**ML Morrison**



## **Nmacmilla Mathematic Question And Answer 2014:**

**Daily Routines to Jump-Start Problem Solving, Grades K-8** John J. SanGiovanni, 2023-04-03 Finally A book that helps solve the problem of teaching problem solving Learning to be a problem solver is hard Teaching students how to be problem solvers themselves can be even harder Some students may learn to mimic procedures to come up with correct answers but are they really learning to solve problems To become independent problem solvers students need to practice exploring tinkering and most importantly thinking The bite size routines in this guide are perfect for teachers looking for the interesting engaging and doable practice students need to become problem solving masters These flexible modifiable bursts of quality practice are designed to get students to look at problems in different ways spark discussion make connections and boost mathematics achievement This collection addresses the common challenges students and teachers face when learning to problem solve by Developing students mathematical reasoning and conceptual understanding Building students skills with various problem solving strategies Nurturing mathematical confidence and improving identity and agency Fortified with standards for math practices and processes the ideas in this guide develop the reasoning and critical thinking skills for students to become independent problem solvers for life

**Problem Solving in Mathematics Instruction and Teacher Professional Development** Patricio Felmer, Peter Liljedahl, Boris Koichu, 2019-11-22 Recent research in problem solving has shifted its focus to actual classroom implementation and what is really going on during problem solving when it is used regularly in classroom This book seeks to stay on top of that trend by approaching diverse aspects of current problem solving research covering three broad themes Firstly it explores the role of teachers in problem solving classrooms and their professional development moving onto secondly the role of students when solving problems with particular consideration of factors like group work discussion role of students in discussions and the effect of students engagement on their self perception and their view of mathematics Finally the book considers the question of problem solving in mathematics instruction as it overlaps with problem design problem solving situations and actual classroom implementation The volume brings together diverse contributors from a variety of countries and with wide and varied experiences combining the voices of leading and developing researchers The book will be of interest to any reader keeping on the frontiers of research in problem solving more specifically researchers and graduate students in mathematics education researchers in problem solving as well as teachers and practitioners

**Answers to Your Biggest Questions About Teaching Secondary Science** Karen Mesmer, Enya Granados, Kevin Gant, Laura Shafer, Ayanna D. Perry, 2024-01-25 Your guide to grow and flourish as a science teacher The past two decades have seen a paradigm shift in science education thanks in large part to the Next Generation Science Standards NGSS which advocate a move away from procedural lab investigations and direct instruction and toward increased emphasis on reasoning sensemaking phenomena exploration problem solving and collaboration Under this new paradigm students are learning real science as scientists practice it so that more and more

students are actively investigating questions and pursuing solutions of their own making As part of the Five to Thrive series for early career educators this comprehensive guide provides those who are new to teaching science as well as seasoned teachers looking to enhance their practice the fundamentals to develop best teaching practices that reflect their students experiences and requirements Written by experienced science educators *Answers to Your Biggest Questions About Teaching Secondary Science* provides practical guidance on successful strategies and techniques for teaching science in a way that gives every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and authority in the classroom ultimately resulting in a positive science identity The book is organized around five overarching questions and answers that will help you most thrive in your secondary science classroom How do I build a positive science community How do I structure organize and manage my science class How do I engage my students in science How do I help my students talk about science How do I know what my students know and how can I use that information to plan and move them forward The book concludes with a sixth question Where do I go from here that provides guidance for growing your practice over time including discussions on self care advocating for students and an extensive discussion on growing your professional network Woven throughout you ll find helpful sidebar notes on fostering identity and agency access and equity teaching in different settings and invaluable resources for deeper learning Strive to become the best science educator you can be your students are counting on it      **Thinking of Questions** Peter Limm,2015-09-23 This is not a conventional book It is designed to stimulate and challenge all people who are curious to find out about the world they inhabit and their place within it It does this by suggesting questions and lines of questioning on a wide range of topics The book does not provide answers or model arguments but prompts people to create their own questions and a reading log or journal To this end almost all questions have a list of books or articles to provide a starter for stimulating further reading Once you start you will be hooked Never stop questioning      *Educators' Work Integrated Learning Experiences* Iman C. Chahine,Lalini Reddy,2024-09-17 This edited volume explores the power of educators work integrated learning experiences as transformative narratives transcending classroom boundaries Through critical reflection and storytelling teachers share their personal journeys across diverse cultural contexts offering fine grained descriptions of their growth and development Drawing on the belief that storytelling serves as a meeting ground for culture cognition and emotions educators narrate their encounters and immerse readers in glocal realms This book celebrates the immersion and excursion stories that shape educators lived experiences and personal histories illuminating how this knowledge can inspire highly impactful classroom practices for all students This volume is intended for in service and pre service educators teacher educators school administrators as well as undergraduate and graduate students in Social Sciences and Humanities Its primary goal is to delve into educators stories as they engage in work integrated learning programs across diverse global local contexts      *The Routledge Handbook of Materials Development for Language Teaching* Julie Norton,Heather Buchanan,2022-03-16 The

Routledge Handbook of Materials Development for Language Teaching is the definitive resource for all working in this area of language and English language teaching With 34 chapters authored by leading figures from around the world the Handbook provides an historical overview of the development of language teaching materials critical discussion of core issues and an assessment of future directions The contributions represent a range of different international contexts providing insightful state of the art coverage of the field Structured in nine sections the Handbook covers changes and developments in language teaching materials controversial issues in materials development research and materials development materials for language learning and skills development materials evaluation and adaptation materials for specific contexts materials development and technology developing materials for publication professional development and materials writing Demonstrating throughout the dynamic relationship between theory and practice this accessible Handbook is essential reading for researchers scholars and students on MA programmes in ELT TESOL and applied linguistics

**Mathematics Education in East Africa** Anjum Halai, Geoff Tennant, 2016-03-08 This Open Access book is a valuable resource for policymakers and practitioners as it brings insights mainly from developing countries where relatively less research activity takes place It is also a valuable resource for courses in mathematics education in the teacher education colleges and departments of education in the sub Saharan Africa region In the increasingly global and technological world mathematics is seen as a significant gatekeeper of opportunities for social and economic advancement and mobility Hence countries and development agencies in the broader sub Saharan Africa region are looking towards increasing access to relevant and high quality secondary education as a lever towards economic development Policy makers and other key decision makers in education look towards improvement in mathematics teaching and learning as a key focus in education reform In the East Africa region also a number of initiatives have been taken at the national level in the respective countries to improve the quality of mathematics education This book provides an in depth comparative analysis of the developments and issues in mathematics education in Kenya Tanzania Rwanda and Uganda and advances our understanding of the state of secondary mathematics education in East Africa *200 technical questions and answers for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center, 2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry On My Own Xueli Wang, 2021-02-18 2020 ASHE Council for the Advancement of Higher Education Programs

CAHEP Barbara Townsend Lecture Award 2021 Transfer Champion Catalyst Award from the National Institute for the Study of Transfer Students NISTS 2021 Outstanding Publication Award AERA Division J Publication and Research On My Own The Challenge and Promise of Building Equitable STEM Transfer Pathways is the first book of its kind to provide a detailed on the ground examination of the difficult paths curricular interpersonal and institutional that students must chart through community college The book follows 1 670 two year college students over four years as they begin STEM programs in the Midwest and documents their educational and life experiences as they moved toward or away from the prospect of transfer to a four year institution Their stories reveal that they were on their own left to navigate the pathways to transfer without meaningful institutional support The students pursued one of four pathways or momentum trajectories linear upward detoured deferred or taking a break The preexisting and lasting disparities in their access to education and financial resources their experiences with teaching and advising and the conundrum between support from and for family among others propelled them onto different trajectories in their quest for transfer As this book makes painfully clear the current state of transfer acts as a mechanism that perpetuates and worsens inequities in educational outcomes As Xueli Wang argues to cultivate an equitable STEM transfer pathway culturally relevant and responsive supports that are accessible welcoming and validating must be put in place at the institutional level and appeal to the talent motivation and unique needs of historically marginalized students In doing so postsecondary institutions will be better positioned to fulfill their promise as an equitable pathway to bachelor s degrees and beyond *Mathematical Problem Solving* Peter Liljedahl, Manuel

Santos-Trigo, 2019-02-12 This book contributes to the field of mathematical problem solving by exploring current themes trends and research perspectives It does so by addressing five broad and related dimensions problem solving heuristics problem solving and technology inquiry and problem posing in mathematics education assessment of and through problem solving and the problem solving environment Mathematical problem solving has long been recognized as an important aspect of mathematics teaching mathematics and learning mathematics It has influenced mathematics curricula around the world with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving And as such it has been of interest to mathematics education researchers for as long as the field has existed Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students development of mathematical knowledge and problem solving skills The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners success in problem solving activities cognitive metacognitive social and affective analysis curriculum proposals and ways to promote problem solving approaches Neural Information Processing Derong Liu, Shengli Xie, Yuanqing Li, Dongbin Zhao, El-Sayed M. El-Alfy, 2017-11-07 The six volume set LNCS 10634 LNCS 10635 LNCS 10636 LNCS 10637 LNCS 10638 and LNCS 10639 constitutes the proceedings of the 24rd International Conference on Neural Information Processing ICONIP 2017 held in Guangzhou China in November 2017 The 563 full papers

presented were carefully reviewed and selected from 856 submissions The 6 volumes are organized in topical sections on Machine Learning Reinforcement Learning Big Data Analysis Deep Learning Brain Computer Interface Computational Finance Computer Vision Neurodynamics Sensory Perception and Decision Making Computational Intelligence Neural Data Analysis Biomedical Engineering Emotion and Bayesian Networks Data Mining Time Series Analysis Social Networks Bioinformatics Information Security and Social Cognition Robotics and Control Pattern Recognition Neuromorphic Hardware and Speech Processing     [150 technical questions and answers for job interview Offshore Drilling Rigs](#) Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     [Spherical Geometry and Its Applications](#) Marshall Whittlesey,2019-11-14 Spherical Geometry and Its Applications introduces spherical geometry and its practical applications in a mathematically rigorous form The text can serve as a course in spherical geometry for mathematics majors Readers from various academic backgrounds can comprehend various approaches to the subject The book introduces an axiomatic system for spherical geometry and uses it to prove the main theorems of the subject It also provides an alternate approach using quaternions The author illustrates how a traditional axiomatic system for plane geometry can be modified to produce a different geometric world but a geometric world that is no less real than the geometric world of the plane Features A well rounded introduction to spherical geometry Provides several proofs of some theorems to appeal to larger audiences Presents principal applications the study of the surface of the earth the study of stars and planets in the sky the study of three and four dimensional polyhedra mappings of the sphere and crystallography Many problems are based on propositions from the ancient text Sphaerica of Menelaus     **Rough Draft Math** Amanda Jansen,2023-10-10 Talking and writing about unfinished ideas is vital to learning mathematics but most students only speak up when they think they have the right answer especially middle school and high school students Amanda Jansen and her collaborating teachers have developed a breakthrough approach to address this challenge In Rough Draft Math Revising to Learn Jansen shares the power of infusing math class with the spirit of revision so that students feel comfortable thinking aloud as they problem solve rather than talking only to perform right answers Creating a Community of Learners As part of the rough draft framework a class of students becomes an equitable and inclusive community of thinkers one where students feel safe to engage in discourse while developing mathematical competency and confidence Practical Application of Innovative Ideas This book includes specific teaching

techniques and a range of classroom vignettes showing rough draft math in action within a student centered teaching approach Children can develop solutions at their own pace and share thought processes behind their conclusions Classroom Tested Jansen has developed the concept of rough draft math in collaboration with a diverse group of dynamic and reflective teachers Rough Draft Math provides a blueprint for educators to allow free thinking discussion while maintaining the mathematical learning goals Rough Draft Math Jansen shows how to create an energetic classroom culture where students readily participate and share their evolving understanding while engaging in math talk collaborative problem solving and ongoing revision of ideas

*Teaching Mathematics Through Cross-Curricular Projects* Elizabeth A. Donovan, Lucas A. Hoots, Lesley W. Wigglesworth, 2024-07-22 This book offers engaging cross curricular modules to supplement a variety of pure mathematics courses Developed and tested by college instructors each activity or project can be integrated into an instructor's existing class to illuminate the relationship between pure mathematics and other subjects Every chapter was carefully designed to promote active learning strategies The editors have diligently curated a volume of twenty six independent modules that cover topics from fields as diverse as cultural studies the arts civic engagement STEM topics and sports and games An easy to use reference table makes it straightforward to find the right project for your class Each module contains a detailed description of a cross curricular activity as well as a list of the recommended prerequisites for the participating students The reader will also find suggestions for extensions to the provided activities as well as advice and reflections from instructors who field tested the modules *Teaching Mathematics Through Cross Curricular Projects* is aimed at anyone wishing to demonstrate the utility of pure mathematics across a wide selection of real world scenarios and academic disciplines Even the most experienced instructor will find something new and surprising to enhance their pure mathematics courses

Numeracy Across the Curriculum Merrilyn Goos, Vince Geiger, Shelley Dole, Helen Forgasz, Anne Bennison, 2020-07-16 Being numerate involves more than mastering basic mathematics Numeracy connects the mathematics learned at school with out of school situations that require capabilities such as problem solving critical judgment and sense making related to non mathematical contexts This book provides prospective and practising teachers with practical research based strategies for embedding numeracy across the primary and secondary school curriculum Based on the authors ten year research program the text explains what numeracy is and how numeracy has developed as an educational goal It describes in detail the five dimensions of the authors model attention to real life contexts application of mathematical knowledge use of physical representational and digital tools the promotion of positive dispositions towards the use of mathematics to solve problems encountered in day to day life and a critical orientation to interpreting mathematical results and making evidence based judgements There is guidance on how to embed numeracy across all subjects within the curriculum how to assess numeracy learning and how to deal with challenges and dilemmas including working with discipline boundaries and developing support resources Featuring practical examples and case studies throughout this book will build pre service



teacher confidence demystify common misconceptions and grounds theory into practice in this vital area of student competency The authors of this text are recognised authorities on numeracy They have engaged heavily in numeracy research over many years and this text reflects the depth of their understanding and knowledge Geoff Hilton University of Queensland

**The African American Student's Guide to STEM Careers** Robert T. Palmer, Andrew T. Arroyo, Alonzo Flowers, 2016-12-05 This book comprehensively reviews the factors that facilitate access and success of Black students in STEM majors in higher education and it shares compelling testimonies from Black STEM professionals that will help inspire the next generation of Black scientists and engineers Most experts agree that America's success depends on having a workforce that is highly prepared in STEM areas Unfortunately students of color continue to be underrepresented in higher education and specifically in completing degrees and entering careers within the STEM fields This book supports African American students as well as all students who are interested in STEM careers providing information on the top colleges with STEM related programs particularly those that best support racially diverse students practical advice for preparing for entrance into STEM programs and inspirational stories of successful African Americans in STEM related careers Authored by three educators expert in the areas of academic development of African Americans and minorities STEM and higher education The African American Student's Guide to STEM Careers focuses on preparing Black students for STEM from K 12 through graduate school Readers will more fully appreciate the importance of STEM recognize why more Black students need to be more actively engaged in these disciplines and understand how to prepare Black students for success in STEM throughout the educational pipeline

Computational Geometry, Topology and Physics of Digital Images with Applications James F. Peters, 2019-10-03 This book discusses the computational geometry topology and physics of digital images and video frame sequences This trio of computational approaches encompasses the study of shape complexes optical vortex nerves and proximities embedded in triangulated video frames and single images while computational geometry focuses on the geometric structures that infuse triangulated visual scenes The book first addresses the topology of cellular complexes to provide a basis for an introductory study of the computational topology of visual scenes exploring the fabric shapes and structures typically found in visual scenes The book then examines the inherent geometry and topology of visual scenes and the fine structure of light and light caustics of visual scenes which bring into play catastrophe theory and the appearance of light caustic folds and cusps Following on from this the book introduces optical vortex nerves in triangulated digital images In this context computational physics is synonymous with the study of the fine structure of light choreographed in video frames This choreography appears as a sequence of snapshots of light reflected and refracted from surface shapes providing a solid foundation for detecting analyzing and classifying visual scene shapes

**Mathematics in Early Childhood** Oliver Thiel, Elena Severina, Bob Perry, 2020-11-05 Structured around Bishop's six fundamental mathematical activities this book brings together examples of mathematics education from a range of countries to help readers broaden their view on maths

and its interrelationship to other aspects of life Considering different educational traditions and diverse contexts and illustrating theory through the use of real life vignettes throughout this book encourages readers to review reflect on and critique their own practice when conducting activities on explaining counting measuring locating designing and playing Aimed at early childhood educators and practitioners looking to improve the mathematics learning experience for all their students this practical and accessible guide provides the knowledge and tools to help every child **Teaching**

**Mathematics Creatively** Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

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