

**SUBJECT: MATHEMATICS CLASS : XII**
**MAX. MARKS : 100  
DURATION : 3 HRS**
**General Instruction:**

- (i) All questions are compulsory.
- (ii) This question paper contains 29 questions.
- (iii) Question 1- 4 in Section A are very short-answer type questions carrying 1 mark each.
- (iv) Question 5-12 in Section B are short-answer type questions carrying 2 marks each.
- (v) Question 13-23 in Section C are long-answer-I type questions carrying 4 marks each.
- (vi) Question 24-29 in Section D are long-answer-II type questions carrying 6 marks each.

**SECTION – A**
**Questions 1 to 4 carry 1 mark each.**

- If the binary operation  $*$  on the set of integers  $Z$ , is defined by  $a * b = a + 3b^2$ , then find the value of  $2 * 4$ .
- If  $f: R \rightarrow R$  be defined by  $f(x) = (3 - x^2)^{1/3}$ , then find  $fof(x)$ .
- If  $A$  is a  $3 \times 3$  matrix,  $|A| \neq 0$  and  $|3A| = k |A|$ , then write the value of  $k$ .
- Find a vector in the direction of vector  $2\hat{i} - 3\hat{j} + 6\hat{k}$  which has magnitude 21 units.

**OR**

Find the unit vector in the direction of vector  $\overrightarrow{PQ}$ , where P and Q are the points (1, 2, 3) and (4, 5, 6), respectively.

**SECTION – B**
**Questions 5 to 12 carry 2 marks each.**

- Prove that  $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left( \frac{1-x}{1+x} \right)$ ,  $x \in (0, 1)$
- If  $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$ , find the value of  $x + y$ .
- If  $y = \cot^{-1} \sqrt{\frac{1-\sin x}{1+\sin x}}$ , find  $\frac{dy}{dx}$ .
- Evaluate:  $\int \frac{xe^x}{(1+x)^2} dx$

**OR**

Evaluate:  $\int \frac{1}{\sqrt{2x-x^2}} dx$

- Find the approximate change in the volume  $V$  of a cube of side  $x$  meters caused by increasing the side by 2%.
- If  $\vec{a}$  and  $\vec{b}$  are perpendicular vectors,  $|\vec{a} + \vec{b}| = 13$  and  $|\vec{a}| = 5$  find the value of  $|\vec{b}|$ .

**OR**

If  $\vec{a} = 5\hat{i} - \hat{j} - 3\hat{k}$  and  $\vec{b} = \hat{i} + 3\hat{j} - 5\hat{k}$ , then show that the vectors  $\vec{a} - \vec{b}$  and  $\vec{a} + \vec{b}$  are perpendicular.

# Math Papers Grade 12 2014

**Peter Kloosterman, Doris Mohr, Crystal  
Walcott**



## **Math Papers Grade 12 2014:**

**Research for Educational Change** Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

The Mathematics Education for the Future Project - Proceedings of the 14th International Conference Alan Rogerson, Janina Morska, 2017-07-01 This volume contains the papers presented at the International Conference on Challenges in Mathematics Education for the Next Decade held from September 10 15 2017 in Balatonf red Hungary The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

*Handbook of International Research in Mathematics Education* Lyn D. English, David Kirshner, 2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook's original themes for international research in mathematics education and remains in the process a definitive resource for the field

**Math Instruction for Students**

**with Learning Problems** Susan Perry Gurganus, 2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis

**Mathematics and Multi-Ethnic Students** Yvelyne Germain-McCarthy, 2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students

**What Mathematics Do Students Know and How is that Knowledge Changing?** Peter Kloosterman, Doris Mohr, Crystal Walcott, 2015-09-01 This volume is intended for researchers curriculum developers policy makers and classroom teachers who want comprehensive information on what students at grades 4 8 and 12 the grades assessed by NAEP can and cannot do in mathematics After two introductory chapters on the design of NAEP the volume contains a chapter on the challenges in analyzing NAEP data at the item level followed by five chapters that report 2005 through 2013 student performance on specific assessment items These chapters are organized by content area and then by topic e g understanding of place value knowledge of transformations ability to use metric and U S systems of measurement and thus provide baseline data on the proportion of students who are able to complete the mathematics tasks currently used in the upper elementary middle and high school mathematics curriculum Additional chapters focus on student reasoning U S performance on international assessments and using construct analysis rather than percent correct on clusters of items to understand student knowledge on specific mathematics topics Several themes emerge from the volume One is that while the rate of improvement in mathematics learning in grades 4 and 8 has slowed in recent years it has slowed more on some topics than others Another is

that relatively minor changes in wording can have significant effects on student performance and thus it is difficult to be specific about what students can do without knowing exactly what questions they were asked A third theme is that changes in performance over time can sometimes but not always be understood in terms of what students are taught For example there were substantial gains on several grade 4 items requiring understanding of fractions and that is probably because the amount of instruction on fractions in grades 3 and 4 has been increasing In contrast while relatively few twelfth grade students have ever been good at factoring trinomials performance on this skill seems to be decreasing This suggests that while more students are completing advanced mathematics courses in high school these courses are not helping in the area of factoring trinomials Finally there are limitations to using NAEP as a measure of student performance on the Common Core State Standards To the extent that NAEP can be used however the NAEP data show a substantial gap between expectations and performance *Current And Advanced Researches In Science And Math Education I* Tayfun Tutak,2024-05-03

**Beyond Answers** Michael Flynn, Mike Flynn, 2016-11-23 Shares ideas on how best to implement the Standards for Mathematical Practice in K 2 classrooms **Math Trailblazers 2E G2 Teacher Implementation Guide** Kendall/Hunt Publishing Company TIMS Project National Science Foundation (U.S.) University of Illinois at Chicago, 2004 **The Mathematics Lesson-Planning Handbook, Grades 6-8** Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6 8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6 8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners **Validation of Score Meaning for the Next Generation of**

**Assessments** Kadriye Ercikan, James W. Pellegrino, 2017-03-27 Despite developments in research and practice on using examinee response process data in assessment design the use of such data in test validation is rare Validation of Score Meaning in the Next Generation of Assessments Using Response Processes highlights the importance of validity evidence based on response processes and provides guidance to measurement researchers and practitioners in creating and using such evidence as a regular part of the assessment validation process Response processes refer to approaches and behaviors of examinees when they interpret assessment situations and formulate and generate solutions as revealed through verbalizations eye movements response times or computer clicks Such response process data can provide information about the extent to which items and tasks engage examinees in the intended ways With contributions from the top researchers in the field of assessment this volume includes chapters that focus on methodological issues and on applications across multiple contexts of assessment interpretation and use In Part I of this book contributors discuss the framing of validity as an evidence based argument for the interpretation of the meaning of test scores the specifics of different methods of response process data collection and analysis and the use of response process data relative to issues of validation as highlighted in the joint standards on testing In Part II chapter authors offer examples that illustrate the use of response process data in assessment validation These cases are provided specifically to address issues related to the analysis and interpretation of performance on assessments of complex cognition assessments designed to inform classroom learning and instruction and assessments intended for students with varying cultural and linguistic backgrounds The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**International Index to Periodicals**, 1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts *Social Sciences and Humanities Index*, 1916

The Mathematics Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A.

Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it is a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education Your blueprint to planning K-2 math lessons for maximum impact and understanding Not sure of tomorrow morning's lesson plan Or maybe you feel it isn't tailored enough for your students' needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K-2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K-2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord

Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students **Resources in Education** ,2001-10 *Children's drawings:*

*Evidence-based research and practice* Matteo Angelo Fabris,Monica Shiakou,Claudio Longobardi,Christiane

Lange-Küttner,2023-08-24

**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 more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics

**Making Math Accessible to English Language Learners (Grades 3-5)** r4Educated Solutions,2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics The tips and suggestions are based on research in practices and strategies that address the affective linguistic and cognitive needs of English language learners

**Math Trailblazers 2E G3 Teacher Implementation Guide** TIMS Project,2004 A complete research based K 5 mathematics program integrating math science and language arts The program embodies the NCTM Principles and standards for school mathematics and is based on the ideas that mathematics is best learned by solving problems in real world contexts and that a curriculum should balance conceptual understanding and procedural skill P 4 of cover

**Arguing with Numbers** James Wynn,G. Mitchell Reyes,2021-04-15 As discrete fields of inquiry rhetoric and mathematics have long been considered antithetical to each other That is if mathematics explains or describes the phenomena it studies with certainty persuasion is not needed This volume calls into question the view that mathematics is free of rhetoric Through nine studies of the intersections between these two disciplines Arguing with Numbers shows that mathematics is in fact deeply rhetorical Using rhetoric as a lens to analyze mathematically based arguments in public policy political and economic theory and even literature the essays in this volume reveal how mathematics influences the values and beliefs with which we assess the world and make decisions and how our worldviews influence the kinds of mathematical instruments we construct and accept In addition contributors examine how concepts of rhetoric such as analogy and visuality have been employed in mathematical and scientific reasoning including in the theorems of mathematical physicists and the geometrical diagramming of natural scientists Challenging academic orthodoxy these scholars reject a math equals truth reduction in favor of a more constructivist theory of mathematics as dynamic evolving and powerfully persuasive By bringing these disparate lines of inquiry into conversation with one another Arguing with Numbers provides inspiration to students established scholars and anyone inside or outside rhetorical studies who might be interested in exploring the intersections between the two disciplines In addition to the editors the contributors to this volume are Catherine Chaput Crystal Broch Colombini Nathan Crick Michael Dreher Jeanne Fahnestock Andrew C Jones Joseph Little and Edward Schiappa



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