

RELATIONS AND FUNCTIONS

1.1 Overview


1.1.1 Relation

A relation R from a non-empty set A to a non empty set B is a subset of the Cartesian product $A \times B$. The set of all first elements of the ordered pairs in a relation R from a set A to a set B is called the domain of the relation R . The set of all second elements in a relation R from a set A to a set B is called the range of the relation R . The whole set B is called the codomain of the relation R . Note that range is always a subset of codomain.

1.1.2 Types of Relations

A relation R in a set A is subset of $A \times A$. Thus empty set ϕ and $A \times A$ are two extreme relations.

- (i) A relation R in a set A is called empty relation, if no element of A is related to any element of A , i.e., $R = \phi \subset A \times A$.
- (ii) A relation R in a set A is called universal relation, if each element of A is related to every element of A , i.e., $R = A \times A$.
- (iii) A relation R in A is said to be reflexive if aRa for all $a \in A$, R is symmetric if $aRb \Rightarrow bRa$, $\forall a, b \in A$ and it is said to be transitive if aRb and $bRc \Rightarrow aRc$ $\forall a, b, c \in A$. Any relation which is reflexive, symmetric and transitive is called an equivalence relation.

 **Note:** An important property of an equivalence relation is that it divides the set into pairwise disjoint subsets called equivalent classes whose collection is called a partition of the set. Note that the union of all equivalence classes gives the whole set.

1.1.3 Types of Functions

- (i) A function $f: X \rightarrow Y$ is defined to be one-one (or injective), if the images of distinct elements of X under f are distinct, i.e.,

$$x_1, x_2 \in X, f(x_1) = f(x_2) \Rightarrow x_1 = x_2.$$
- (ii) A function $f: X \rightarrow Y$ is said to be onto (or surjective), if every element of Y is the image of some element of X under f , i.e., for every $y \in Y$ there exists an element $x \in X$ such that $f(x) = y$.

Grade Twelve Caps Maths Exemplar

Tej Pandey



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Maths Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book Kevin Smith, 2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook

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Teaching Mathematics in Grades 6 - 12 Randall E. Groth, 2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how students thinking may develop in response to different teaching strategies 12

YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition Disha Experts, 2019-09-06 CTET Paper 2 Science & Mathematics 12 Solved + 15 Practice Sets (Class 6 - 8 Teachers) 6th Edition

Disha Experts, 2020-02-04 *Teaching Math at a Distance, Grades K-12* Theresa Wills, 2020-10-12 Make Rich Math Instruction Come to Life Online In an age when distance learning has become part of the new normal educators know that rich remote math teaching involves more than direct instruction online videos and endless practice problems on virtual worksheets Using both personal experience and those of teachers in real K 12 online classrooms distance learning mathematics veteran Theresa Wills translates all we know about research based equitable rigorous face to face mathematics instruction into an online venue This powerful guide equips math teachers to Build students agency identity and strong math communities Promote mathematical thinking collaboration and discourse Incorporate rich mathematics tasks and assign

meaningful homework and practice Facilitate engaging online math instruction using virtual manipulatives and other concrete learning tools Recognize and address equity and inclusion challenges associated with distance learning Assess mathematics learning from a distance With examples across the grades links to tutorials and templates and space to reflect and plan Teaching Math at a Distance offers the support clarity and inspiration needed to guide teachers through teaching math remotely without sacrificing deep learning and academic growth **Mathematics Education Today** ,1985

Mathematics Assessment and Evaluation Thomas A. Romberg,1992-07-01 Are current testing practices consistent with the goals of the reform movement in school mathematics If not what are the alternatives How can authentic performance in mathematics be assessed These and similar questions about tests and their uses have forced those advocating change to examine the way in which mathematical performance data is gathered and used in American schools This book provides recent views on the issues surrounding mathematics tests such as the need for valid performance data the implications of the Curriculum and Evaluation Standards for School Mathematics for test development the identification of valid items and tests in terms of the Standards the procedures now being used to construct a sample of state assessment tests gender differences in test taking and methods of reporting student achievement **Assessment Alternatives in Mathematics** Jean Kerr

Stenmark,EQUALS.,1989 This is a review of methods to assess students real mathematics achievement including looking at students completed tasks or products portfolios writing investigations and open ended questions and at students performance or how they are working through observations interviews and questions It also discusses student self assessment gives sample problems and raises issues that need to be considered Publisher's description **Spots for MATH**

- Teacher's Edition - Grade 1 Spots for M.A.T.H.,2012-09 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

A Sampler of Mathematics Assessment Tej Pandey, 1991 The California Assessment Program CAP administers tests to all public school students at certain grade levels compiles the results and provides information that allows educators to judge the effectiveness of their programs and make improvements This sampler describes the types of assessment that CAP proposes to respond to the needed changes that reflect the recent curricular reforms in schools throughout California The four types of assessment planned for CAP are 1 open ended problems 2 enhanced multiple choice questions 3 investigations and 4 portfolios These modes of assessment are recommended for adaption for teachers of all grade levels and teachers are encouraged to use the examples in the booklet to enhance classroom instruction and to develop tasks for student assessment After chapter 1 that describes the changes in assessment the sampler is divided into six major parts chapter 2 Assessment of Mathematical Power chapter 3 Types of Assessment chapter 4 Performance Standards and Judging a Student's Work chapter 5 Implementation of Authentic Assessment in Your School chapter 6 Sample Problems A Participation and Feedback page is given to ask participants comments and suggestions about the sampler 11 selected references MDH

International Perspectives on Mathematics Curriculum Denisse R Thompson, Mary Ann Huntley, Christine Suurtamm, 2018-01-01 Curriculum can be defined in a variety of ways It might be viewed as a body of knowledge a product or a process Curricula can differ as they are conceptualized from various theoretical perspectives to address the needs of teachers students and the context of schooling One reason to study curriculum is to reveal the expectations processes and outcomes of students school learning experiences that are situated in different cultural and system contexts further studies of curriculum practices and changes are much needed to help ensure the success of educational reforms in the different cultural and system contexts Kulm Li 2009 p 709 This volume highlights international perspectives on curriculum and aims to broaden the wider mathematics education community's understandings of mathematics curriculum through viewing a variety of ways that curricula are developed understood and implemented in different jurisdictions countries Within this volume we define curriculum broadly as the set of mathematics standards or outcomes the messages inherent in mathematics curriculum documents and resources how these standards are understood by a variety of stakeholders and how they are enacted in classrooms The focus is on the written implied and enacted curriculum in various educational settings throughout the world

Mathematical Modelling and Applications Gloria Ann Stillman, Werner Blum, Gabriele Kaiser, 2017-11-05 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in the life world of people whether these range from the everyday individual numeracy level to sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for multi disciplinary work that involves knowledge

from a variety of communities of practice such as those in different workplaces e.g. those of educators, designers, construction engineers, museum curators and in different fields of academic endeavour e.g. history, archaeology, mathematics, economics. From an educational perspective, researching the development of competency in real world modelling involves research situated in crossing the boundaries between being a student engaged in modelling or mathematical application to real world tasks in the classroom, being a teacher of mathematical modelling in or outside the classroom or bridging both and being a modeller of the world outside the classroom. This is the focus of many of the authors of the chapters in this book. All authors of this volume are members of the International Community of Teachers of Mathematical Modelling (ICTMA), the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace. *Math Advantage, Grade 8* Grace M. Burton, Harcourt

Brace, 1998-05-22 **Education Systems Around the World** Gilson Porto, 2020-04-08 This book *Education Systems Around the World* is a collection of reviewed and relevant research chapters that offer a comprehensive overview of recent developments in the field of social sciences and humanities. The book comprises single chapters authored by various researchers and edited by an expert active in the field of social studies and humanities. All chapters are unique but are united under a common research study topic. This publication aims to provide a thorough overview of the latest research efforts by international authors on social studies and humanities and open new possible research paths for further novel developments.

Developing Mathematical Reasoning in Grades K-12 Lee Stiff, Frances R. Curcio, 1999 This book sharpens your view of mathematical reasoning and its development at all grade levels. It reveals the various perspectives about the nature of reasoning. Also, it addresses the many issues and concerns involving mathematical reasoning: how learners reason in mathematics, how communication promotes reasoning, how teachers gather evidence of student reasoning, what curricular approaches can be profitably explored, what can be done to ensure success in developing reasoning and more. This useful resource lets you dig deep into the topic and offers many ideas useful in your classroom. *Resources in Education*, 1995

Inquiry and Problem Solving, 1999 **A Question of Thinking**, 1989 This report attempts to discover how students think about and use mathematics in open-ended questions. Part I, *Open-ended Questions in Mathematics*, describes the rationale for adding open-ended questions to the grade 12 mathematics test of the California Assessment Program (CAP). Part II describes the findings from students' responses to five selected open-ended problems from the 1987 test. Strengths and weaknesses in the students' responses are examined, including students' misconceptions. In part III, the CAP advisory committee's reasons for developing the scoring procedure used for the five open-ended questions are discussed. Five scoring procedures for five problems are presented. Part IV includes 20 student responses that have been scored and two responses that are in the ten problems given in 1987 and 1988. A set of nine open-ended problems were presented. YP

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