

#### ANNUAL NATIONAL ASSESSMENT 2014 **GRADE 5 MATHEMATICS** MEMORANDUM

#### MARKS: 60

### This memorandum consists of 3 pages.

#### Important information:

- Give full marks for answers only, unless otherwise stated.
- Accept any alternative correct solution that is not included in the memorandum.
   CA refers to consistent accuracy. See clarification in Question 8.1.

Ques	tion	Expected Answer	Clarification	Mark allocation	Total
Target .	1.1	8 -		1	
	1.2	8 ~		1	1
	1.3	ic -		1 1	1
	1.4	D ✓		1	1
	1.5	BV		1	8
	1.6	D =		1	
	1.7	16.2	-	1	
	1.8	18 2	+	1	
	1.70	987	+	i	1
	+	6 4	+	1	
Ber .		1 000 -		1	20
		3 /			
	-	- TO CO		1	1
		p = 9 ✓ and t = 5 ✓		1	
		All:		1	2
		♡ -		1	
		<b>♦</b> ✓		1	2
	7.1	(6 × 4) ×		1	
	7.2	5 -		1	2
		456 + 98 734 106 190 or 7 000 = 7 000 456 = 400 + 50 + 6 + 98 734 = 90 000 + 8 000 + 700 + 30 + 4 Sum = 90 000 + 15 000 + 1 100 + 80 = 10 = 106 190 or 7 000 + 400 + 50 + 6 + 90 000 + 8 000 + 700 + 30 + 4 = 90 000 + 7 000 + 8 000 + 400 + 700 + 50 + 30 + 6 + 4 = 105 000 + 1 000 + 100 + 80 + 107	Digits in correct columns: 1 mark Correct answer: 1 mark 7 000 456 × + 98 734 214 334 ✓ 1 mark for CA		
		70.0017	RI B. I. I.	2	4
	8.2	78 954 - 4 563 74 391	Digits in correct columns: 1 mark Correct answer: 1 mark		

# **Mathematics Nmemorandum 2014**

**Elizabeth Votruba-Drzal, Eric Dearing** 

## **Mathematics Nmemorandum 2014:**

Monthly Catalogue, United States Public Documents .1965 Math Instruction for Students with Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction **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 **Ethnomathematics and its Diverse Approaches for Mathematics** Education Milton Rosa, Lawrence Shirley, Maria Elena Gavarrete, Wilfredo V. Alangui, 2017-07-25 This book addresses numerous issues related to ethnomathematics and diverse approaches to it in the context of mathematics education To help readers better understand the development of ethnomathematics it discusses its objectives and assumptions with regard to promoting an ethics of respect solidarity and cooperation across and for all cultures In turn the book addresses a range of aspects including pedagogical action culturally relevant pedagogy innovative approaches to ethnomathematics and the role of ethnomathematics in mathematics education Ethnomathematics offers educators a valuable framework for transforming mathematics so that it can more actively contribute to realizing the dream of a just and humane society As such its primary goal is to forge mathematics into a powerful tool to help people create a society characterized by dignity for all and in which iniquity arrogance violence and bigotry have no place The Symbolic Computation of Integrability Structures for Partial Differential Equations Joseph Krasil'shchik, Alexander Verbovetsky, Raffaele Vitolo, 2018-04-03 This is the first book devoted to the task of computing integrability structures by computer The symbolic computation of integrability operator is a computationally hard problem and the book covers a huge number of situations through tutorials The mathematical part of the book is a new approach to integrability structures that allows to treat all of them in a unified way The software is an

official package of Reduce Reduce is free software so everybody can download it and make experiments using the programs The Wiley Handbook of Early Childhood Development Programs, Practices, and Policies available at our website Elizabeth Votruba-Drzal, Eric Dearing, 2017-01-30 The first and only comprehensive review of current early childhood development theory practices policies and the science behind them This unique and important bookprovides a comprehensive overview of the current theory practices and policies in early childhood development within the contexts of family school and community and society at large Moreover it synthesizes scientifically rigorous research from an array of disciplines in an effort to identify the most effective strategies for promoting early childhood development Research into childhood development is booming and the scientific knowledge base concerning early childhood development is now greater than that of any other stage of the human life span At the same time efforts to apply that knowledge to early childhood practices programs and policies have never been greater or more urgent Yet surprisingly until The Handbook of Early Childhood Development Programs Practices and Policies there was no comprehensive critical review of the applied science in the field The book begins with in depth coverage of child and family approaches From there it moves onto a consideration of school and community based strategies It concludes with a discussion of current social policies on health and development in early childhood and their implications Provides a comprehensive overview of the state of the knowledge base along with guidance for the future of the field Examines the underlying theory and basic science guiding efforts to promote early childhood development Critically reviews the strength of the empirical support for individual practices programs and policies Explores key opportunities and barriers policymakers and practitioners face when implementing various approaches Pays particular attention to socioeconomically disadvantaged and other disenfranchised populations The Handbook of Early Childhood Development Programs Practices and Policies is a valuable resource for practitioners scholars graduate students and advanced undergraduate students across the social sciences who are interested in strengthening their understanding of current strategies for promoting early childhood development and the science informing those strategies Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events Simulation and Inference for Stochastic Processes with YUIMA Stefano M. Iacus, Nakahiro Yoshida, 2018-06-01 The YUIMA package is the first comprehensive R framework based on S4 classes and methods which allows for the simulation of stochastic differential equations driven by Wiener process L vy processes or

fractional Brownian motion as well as CARMA COGARCH and Point processes The package performs various central statistical analyses such as quasi maximum likelihood estimation adaptive Bayes estimation structural change point analysis hypotheses testing asynchronous covariance estimation lead lag estimation LASSO model selection and so on YUIMA also supports stochastic numerical analysis by fast computation of the expected value of functionals of stochastic processes through automatic asymptotic expansion by means of the Malliavin calculus All models can be multidimensional multiparametric or non parametric The book explains briefly the underlying theory for simulation and inference of several classes of stochastic processes and then presents both simulation experiments and applications to real data Although these processes have been originally proposed in physics and more recently in finance they are becoming popular also in biology due to the fact the time course experimental data are now available. The YUIMA package available on CRAN can be freely downloaded and this companion book will make the user able to start his or her analysis from the first page Mathematics Interventions for Struggling Students Diane Pedrotty Bryant, 2021-05-19 This key resource for K 12 educators offers a systematic guide to delivering Tier 2 and 3 math interventions within a multi tiered system of support The volume explains critical math areas in which many students have difficulty early numeracy time and money measurement number combinations fractions word problem solving algebra and more Leading experts describe relevant standards and show how to use data based individualization to plan monitor and intensify instruction in each area Beginning with bulleted guiding questions chapters feature a wealth of evidence based intervention strategies lesson planning ideas and case examples Reproducible instructional activities and planning forms can be downloaded and printed in a convenient 8 1 2 x 11 size

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