

ANNUAL NATIONAL ASSESSMENT 2013 GRADE 5 MATHEMATICS MEMORANDUM

MARKS: 60

This memorandum consists of 3 pages.

Important information:

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

Question		Expected Answer	Clarification	Mark allocation	Total
1	1.1	B -/		1	
	1.2	D /	8	1	1
	1.3	C		1	
	1.4	8 -		1	
	1.5	C /		1	
	1.6	8 -		1	1
	1.7	AY		1	
	1.8	8 -		1	- 8
2.	2.1	33 755 -		1	
	2.2	100 000 ✓		1	2
34.		200 000 or 2 Hundred Thousand or 2HTh <		1	1
4		< /		1	1
5.		9 -		100	1
6.		19 -	(Rule 3 = 2 × 1 + 1 5 = 2 × 2 + 1, 7 = 2 × 3 + 1) 19 = 2 × 9 + 1 25 = (51-1) + 2	1	2
7.	7.1	True	20 401 19	1	3
	7.2	False -		1	
	7.3	True ✓		1	
8.		21 275 + 7 356 40 154 \rightarrow of 11 523 = 10 000 + 1 000 + 500 + 20 + 3 21 275 = 20 000 + 1 000 + 200 + 70 + 5 + 7 356	Arrangement of values: 1 mark Corect answer: 1 mark 11 523 21 275 X + 7 358 106 358 ✓ 1 mark for CA	2	
	8.2	69 157 -17 239 -51 918 ~	Arrangement of values: 1 mark Correct answer; 1 mark	2	

Mathematics Nmemorandum August 201

Marco Cascella

Mathematics Nmemorandum August 201:

4th Grade Math in Action Sylvan Learning, Inc,2010-05-18 Success in math requires children to make connections between the real world and math concepts in order to solve problems Successful problem solvers will be ready for the challenges of mathematics as they advance to more complex topics. The activities in this workbook are designed to help children see how math skills are relevant in their daily lives Best of all they ll have lots of fun Here's a peek at what s inside While Supplies Last A radio station has a certain number of T shirts concert tickets and gift certificates to give away to the first callers Students practice subtracting five digit numbers to calculate how many callers didn t get a prize Skateboard Sort From a dozen skateboards with different designs and patterns students determine the fraction of striped skateboards skateboards with flames skateboards with blue wheels and other groupings Angled Alphabet Students practice recognizing right acute and obtuse angles found in particular letters of the alphabet Find the Flag Students are shown flags of different countries and find intersecting perpendicular and parallel lines in their designs Favorite Flavors Ira's Ice Cream Shop is thinking about changing its flavors From a graph of the flavors people bought on a hot afternoon students determine the most popular flavor which sold in equal amounts which fraction of people bought Fudge Ripple and which flavor should be replaced Give your child's confidence in math a boost with 4th Grade Math in Action **Problems in Applied** Mathematics Murray S. Klamkin, 1990-01-01 People in all walks of life and perhaps mathematicians especially delight in working on problems for the sheer pleasure of meeting a challenge The problem section of SIAM Review has always provided such a challenge for mathematicians The section was started to offer classroom instructors and their students as well as other interested problemists a set of problems solved or unsolved illustrating various applications of mathematics In many cases the unsolved problems were eventually solved Problems in Applied Mathematics is a compilation of 380 of SIAM Review s most interesting problems dating back to the journal s inception in 1959 The problems are classified into 22 broad categories including Series Special Functions Integrals Polynomials Probability Combinatorics Matrices and Determinants Optimization Inequalities Ordinary Differential Equations Boundary Value Problems Asymptotics and Approximations Mechanics Graph Theory and Geometry Mathematics for Large Scale Computing Julio Diaz, 2020-06-29 During recent years a great deal of interest has been devoted to large scale computing applications. This has occurred in great part because of the introduction of advanced high performance computer architectures The book contains survey articles as well as chapters on specific research applications development and analysis of numerical algorithms and performance evaluation of algorithms on advanced architectures. The effect of specialized architectural features on the performance of large scale computation is also considered by several authors Several areas of applications are represented including the numerical solution of partial differential equations iterative techniques for large structured problems the numerical solution of boundary value problems for ordinary differential equations numerical optimization and numerical quadrature Mathematical

issues in computer architecture are also presented including the description of grey codes for generalized hypercubes The results presented in this volume give in our opinion a representative picture of today s state of the art in several aspects of United States Government Publications Monthly Catalog ,1947 large scale computing Government Publications Monthly Catalog United States. Superintendent of Documents, 1947 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Federal Register ,1986-04 Resources in Education ,1998 Essays in Mathematical Economics, in Honor of Oskar Instruments Great Britain, 1977 Morgenstern Martin Shubik, 2015-12-08 Professor Morgenstern's deep interests in economic time series and problems of measurement are represented by path breaking articles devoted to the application of modern statistical analysis to temporal economic data Originally published in 1967 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Reprints of Papers from the** Science Laboratories of the University of Sydney ,1912 Reprints of papers. [Series] A University of Sydney. Science Reprints of Papers from the Science Laboratories of the University of Sydney ... University of Laboratories.1912 From Analysis to Visualization David H. Bailey, Naomi Simone Borwein, Richard P. Brent, Regina S. Sydney, 1912 Burachik, Judy-anne Heather Osborn, Brailey Sims, Qiji J. Zhu, 2020-03-16 Students and researchers from all fields of mathematics are invited to read and treasure this special Proceedings A conference was held 25 29 September 2017 at Noah s On the Beach Newcastle Australia to commemorate the life and work of Jonathan M Borwein a mathematician extraordinaire whose untimely passing in August 2016 was a sorry loss to mathematics and to so many members of its community a loss that continues to be keenly felt A polymath Jonathan Borwein ranks among the most wide ranging and influential mathematicians of the last 50 years making significant contributions to an exceptional diversity of areas and substantially expanding the use of the computer as a tool of the research mathematician The contributions in this commemorative volume probe Dr Borwein's ongoing legacy in areas where he did some of his most outstanding work Applied Analysis Optimization and Convex Functions Mathematics Education Financial Mathematics plus Number Theory Special Functions and Pi all tinged by the double prisms of Experimental Mathematics and Visualization methodologies he Monthly catalog of the United States government publications ,1947 championed A Passion for Mathematics Clifford A. Pickover, 2011-02-25 A Passion for Mathematics is an educational entertaining trip through the curiosities of the math world blending an eclectic mix of history biography philosophy number theory geometry probability huge numbers and

mind bending problems into a delightfully compelling collection that is sure to please math buffs students and experienced mathematicians alike In each chapter Clifford Pickover provides factoids anecdotes definitions quotations and captivating challenges that range from fun quirky puzzles to insanely difficult problems Readers will encounter mad mathematicians strange number sequences obstinate numbers curious constants magic squares fractal geese monkeys typing Hamlet infinity and much much more A Passion for Mathematics will feed readers fascination while giving them problem solving skills a Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.),1960 great workout Summary Technical Report of NDRC United States. Office of Scientific Research and Development. National Defense Research Committee, 1946 Microfilm Index United States. Office of Scientific Research and Development. National Defense Research Committee, 1946 This volume is an index of the technical laboratory and field reports and other reference material which appears in the bibliographies for the Summary Technical Report of NDRC microfilmed **Title Announcement** Bulletin ,1957 Technical Information Pilot, 1951

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• Interactive and Gamified eBooks

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