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Titolo	Reasoning, communication and connections in mathematics : yearbook 2012 : Association of Mathematics Educators // editors, Berinderjeet Kaur, Toh Tin Lam
Pubbl/distr/stampa	Singapore, : World Scientific Pub. Co., 2012
ISBN	9789814405430 9814405434
Edizione	[1st ed.]
Descrizione fisica	1 online resource (335 p.)
Altri autori (Persone)	KaurBerinderjeet <1955-> TohTin Lam
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Soggetti	Mathematics - Study and teaching Reasoning - Study and teaching Communication - Study and teaching
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents; Chapter 1 Reasoning, Communication and Connections in Mathematics: An Introduction Berinderjeet KAUR TOH Tin Lam; 1 Introduction; 2 Mathematical Tasks; 3 Classroom Discourse; 4 Connections Within and Beyond Mathematics; 4 Some Concluding Thoughts; References; Chapter 2 The Epistemic Framing of Mathematical Tasks in Secondary Three Mathematics Lessons in Singapore Ridzuan Abdul RAHIM David HOGAN Melvin CHAN; 1 Introduction; 2 Epistemic Framing 1: Knowledge Focus; 3 Epistemic Framing 2: Domain-Specific Knowledge Practices 4 Tying the Epistemic Knot: Structural Equation Models of Knowledge Focus and Knowledge Practices5 Conclusion; Acknowledgement; References; Chapter 3 Modifying Textbook Exercises to Incorporate Reasoning and Communication into the Primary Mathematics Classroom Denisse R. THOMPSON; 1 Introduction; 2 Reasoning and Communication as Essential Mathematical Processes; 3 Strategies for Modifying Textbook Exercises; 3.1 Reframe a basic problem by including one or more conditions; 3.2 Use relationships to find patterns

or predict other results; 3.3 Generate conjectures for students to investigate

3.4 Encourage students to solve a problem in multiple ways 3.5 Evaluate student solutions; 3.6 Write a question appropriate for a given answer; 3.7 Connect procedural and conceptual knowledge; 4 Conclusion; References; Chapter 4 Some "What" Strategies that Advance Reasoning and Communication in Primary Mathematics Classrooms Berinderjeet KAUR; 1 Mathematical Tasks; 2 "What..." Strategies; 2.1 What number makes sense?; 2.2 "What's wrong?"; 2.3 "What if?"; 2.4 "What's the question if you know the answer?"; 3 A Primary One Mathematics Lesson; 3.1 Objectives of the tasks

3.2 How the tasks were enacted 3.3 Teacher's self-evaluation of her lesson; 4 Conclusion; Acknowledgement; References; Chapter 5 Reasoning and Justification in the Secondary Mathematics Classroom Denisse R. THOMPSON; 1 Introduction; 2 Importance of the Textbook in Providing Opportunities for Reasoning; 3 Aspects of Reasoning to Incorporate into the Curriculum; 3.1 Finding counter examples; 3.2 Investigating conjectures; 3.3 Making conjectures; 3.4 Developing arguments; 3.5 Evaluating arguments; 3.6 Correcting mistakes in reasoning; 4 Including Reasoning in Assessment; 5 Conclusion; References

Chapter 6 LOGO Project-Based Mathematics Learning for Communication, Reasoning and Connection Hee-Chan LEW In-Ok JANG 1 Introduction; 2 Characteristics of LOGO; 3 LOGO Project-Based Learning for the Elementary Students; 4 Some Results of the Pilot Lesson Study; 4.1 Planning and implementing strategies; Analogy; Generalization; Critical thinking; Progressive thinking; 4. 2 Debugging strategies; Visualization; Empirical inference; 5 Conclusion; References; Appendix A: Tasks Used in LOGO Project- Based Learning; Appendix B: One Final work of LOGO Project-Based Mathematics Learning

Chapter 7 Reasoning, Communication and Connections in A-Level Mathematics TOH Tin Lam

Sommario/riassunto

This fourth volume in the series of yearbooks by the Association of Mathematics Educators in Singapore entitled Reasoning, Communication and Connections in Mathematics is unique in that it focuses on a single theme in mathematics education. The objective is to encourage teachers and researchers to advance reasoning, communication and connections in mathematics classrooms. Several renowned international researchers in the field have published their work in this volume. The fifteen chapters of the book illustrate evidence-based practices that school teachers and researchers can experiment with i

2. Record Nr.	UNINA9911140004103321
Titolo	Ischia Group Theory 2006 : proceedings of a conference in honor of Akbar Rhemtulla, ISCHIA, Naples, Italy, 29 March-1 April 2006 / / edited by Trevor Hawkes, Patrizia Longobardi, Mercede Maj
Pubbl/distr/stampa	New Jersey, : World Scientific, c2007
ISBN	9786611918538 9781281918536 1281918539 9789812708670 9812708677
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Descrizione fisica	1 online resource (xxiii, 249 p.) : ill
Altri autori (Persone)	RhemtullaAkbar HawkesTrevor O. <1936-> LongobardiPatrizia MajMercede
Disciplina	512/.22
Soggetti	Representations of groups Nilpotent groups Sylow subgroups Group theory
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Nota di contenuto	Preface -- Sponsors -- Akbar Rhemtulla -- Bibliography -- Conference program -- List of participants -- A combinatorial property of burnside varieties of groups / Alireza Abdollahi -- A note on ends of operator algebras / Tullio G. Ceccherini-Silverstein and Aryeh Y. Samet-Vaillant -- Minimal quasinormal subgroups of groups / John Cossey, Stewart Stonehewer and Giovanni Zacher -- On certain saturated formations of finite groups / Alma D' Aniello, Clorinda de Vivo and Gabriele Giordano -- Groups with few non-normal subgroups / Maria de Falco, Francesco de Giovanni and Carmela Musella -- Groups with conditions on infinite subsets / Constantino Delizia and Chiara Nicotera -- Some generalizations of the probabilistic zeta function / Eloisa Detomi and

Andrea Lucchini -- Groups with proper subgroups of certain types /
 Martyn R. Dixon, Martin J. Evans and Howard Smith -- Counting
 conjugacy classes of subgroups in finite p -groups, I / Gustavo A.
 Fernandez-Alcober and Leire Legarreta -- On certain classes of
 generalized periodic groups / Gerard Endimioni -- Nielsen equivalence
 classes and stability graphs of finitely generated groups / Martin J.
 Evans -- Counting conjugacy classes of subgroups in finite p -groups, II
 / Manuel Egizii di Marco, Gustavo A. Fernandez-Alcober and Leire
 Legarreta -- Positive laws on large sets of generators and on word
 values / Gustavo A. Fernandez-Alcober and Pavel Shumyatsky -- Two
 applications of the Hughes subgroup of finite p -groups / Norberto
 Gavioli, Avinoam MANN and Carlo M. Scoppola -- Free products and
 Higman-Neumann-Neumann type extensions of lattice-ordered groups
 / Andrew M. W. Glass -- Attaching to a profinite space / Wolfgang
 Herfort and Wolfram Hojka -- On groups with two infinite conjugacy
 classes / Marcel Herzog, Patrizia Longobardi and Mercedes Maj --
 Centralizers of nonabelian irreducible equivalent G -groups / Paz
 Jimenez-Seral -- Some new methods for almost regular
 automorphisms / Eugeny I. Khukhro -- Non-properness of amenable
 actions on graphs with infinite many ends / Soyoung Moon and Alain
 Valette -- Groups with finitely many maximal normalizers / Carmela
 Sica and Maria Tota -- Locally graded groups with few non-(torsion-
 by-nilpotent) subgroups / Nadir Trabelsi.

Sommario/riassunto

"This volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area. Together they provide an overview of the diversity of themes and applications that interest group theorists today. Topics covered in this volume include: combinatorial group theory, varieties of groups, orderable groups, conjugacy classes, profinite groups, probabilistic methods in group theory, graphs connected with groups, subgroup structure, and saturated formations."
