Record Nr. UNINA9910455971703321 Learning and teaching number theory [[electronic resource]]: research Titolo in cognition and instruction / / edited by Stephen R. Campbell and Rina Zazkis Westport, Conn., : Ablex Pub., 2002 Pubbl/distr/stampa **ISBN** 1-280-31546-6 9786610315468 0-313-01603-8 Descrizione fisica 1 online resource (244 p.) Collana Mathematics, learning, and cognition. monograph series of the Journal of mathematical behavior;; v. 2 Altri autori (Persone) CampbellStephen R ZazkisRina Disciplina 510 s 512/.7071 Soggetti Number theory - Study and teaching Electronic books. 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 and indexes. Nota di contenuto Contents; 1 Toward Number Theory as a Conceptual Field; 2 Coming to Terms with Division: Preservice Teachers' Understanding; 3 Conceptions of Divisibility: Success and Understanding: 4 Language of Number Theory: Metaphor and Rigor; 5 Understanding Elementary Number Theory at the Undergraduate Level: A Semiotic Approach; 6 Integrating Content and Process in Classroom Mathematics; 7 Patterns of Thought and Prime Factorization; 8 What Do Students Do with Conjectures? Preservice Teachers' Generalizations on a Number Theory Task; 9 Generic Proofs in Number Theory 10 The Development of Mathematical Induction as a Proof Scheme: A Model for DNR-Based Instruction11 Reflections on Mathematics Education Research Questions in Elementary Number Theory; Author Index; Subject Index; About the Contributors