1.	Record Nr.	UNINA9910698640403321
	Autore	Schindler-Tschirner Susanne
	Titolo	Mathematical Stories II - Recursion, Divisibility and Proofs : For Gifted Students in Primary School / / by Susanne Schindler-Tschirner, Werner Schindler
	Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer, , 2023
	ISBN	3-658-38611-8
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (X, 67 p. 7 illus.)
	Collana	Springer essentials, , 2731-3115
	Disciplina	910.02
	Soggetti	Mathematics
		Mathematics - Study and teaching
		Mathematics Education
		Ensenyament de la matemàtica
		Educació primària
		Llibres electrònics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Sommario/riassunto	With the help of tried and tested, carefully elaborated learning units, the authors convey fundamental mathematical techniques in this essential, which are important far beyond primary school. In the present Volume II, the Gaussian summation formula and a recursion formula are derived and applied. Tasks on divisibility, prime factors and divisors follow. For calculating with remainders, the modulo calculation is introduced and applied. Students learn to perform proofs in a variety of contexts. As in Volume I, "Graphs, Games and Proofs", the tasks encourage mathematical thinking, imagination, and creativity. The detailed sample solutions are designed for non-mathematicians. This book is a translation of the original German 1st edition Mathematische Geschichten II – Rekursion, Teilbarkeit und Beweise by Susanne Schindler-Tschirner and Werner Schindler, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2019. The translation was done with the help of artificial intelligence (machine

translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The Content • Mathematical techniques and tasks • Detailed sample solutions The Target Groups • Leaders of study groups as well as support courses for mathematically gifted students in grades 3 and 4, teachers who practice differentiated mathematics lessons. • Committed parents for extracurricular support The Authors Susanne Schindler-Tschirner is a philologist and after studying to become a teacher, she was a project manager at a science publisher. She works in the field of student development and is the author of didactics-oriented publications. Werner Schindler has a PhD in mathematics. He is head of section at the Federal Office for Information Security (BSI) and adjunct professor in the mathematics department at TU Darmstadt.