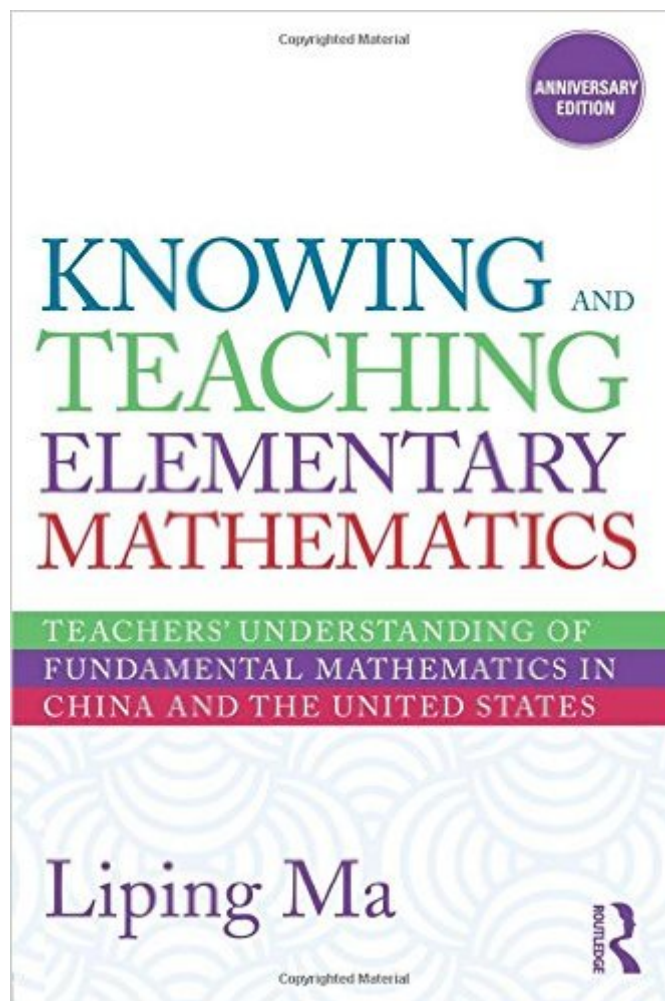


The book was found

# Knowing And Teaching Elementary Mathematics: Teachers' Understanding Of Fundamental Mathematics In China And The United States (Studies In Mathematical Thinking And Learning Series)





## Synopsis

Studies of teachers in the U.S. often document insufficient subject matter knowledge in mathematics. Yet, these studies give few examples of the knowledge teachers need to support teaching, particularly the kind of teaching demanded by recent reforms in mathematics education. *Knowing and Teaching Elementary Mathematics* describes the nature and development of the knowledge that elementary teachers need to become accomplished mathematics teachers, and suggests why such knowledge seems more common in China than in the United States, despite the fact that Chinese teachers have less formal education than their U.S. counterparts. The anniversary edition of this bestselling volume includes the original studies that compare U.S and Chinese elementary school teachers' mathematical understanding and offers a powerful framework for grasping the mathematical content necessary to understand and develop the thinking of school children. Highlighting notable changes in the field and the author's work, this new edition includes an updated preface, introduction, and key journal articles that frame and contextualize this seminal work.

## Book Information

Series: Studies in Mathematical Thinking and Learning Series

Paperback: 232 pages

Publisher: Routledge; 2 edition (January 27, 2010)

Language: English

ISBN-10: 0415873843

ISBN-13: 978-0415873840

Product Dimensions: 6 x 0.5 x 9 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars [See all reviews](#) (10 customer reviews)

Best Sellers Rank: #36,584 in Books (See Top 100 in Books) #80 in [Books > Science & Math > Mathematics > Study & Teaching](#) #106 in [Books > Textbooks > Education > Elementary Education](#) #112 in [Books > Education & Teaching > Schools & Teaching > Instruction Methods > Mathematics](#)

## Customer Reviews

We used this book in a state-sponsored course designed to improve the way mathematics is taught in the public schools. Mathematics teaching in the US has traditionally focused on teaching and memorizing procedures rather than understanding the underlying concepts and relationships - this

book encourages teachers to question that. It may be a bit dry, but it is an excellent resource for those looking to improve their understanding of the important ideas in mathematics in order to improve the way they teach.

Superb little book in mathematics education. I've been familiar with this classic for a long time and I consider it the best mathematics education book ever written. If only our country would do the same for preparation of elementary school teachers charge was teaching elementary mathematics. Her term PUFM, *Profound Understanding of Fundamental Mathematics*, is standard in her native China (with several fewer years of preparation) and all too rare with ours.

The single best book on understanding the math you teach. Over my fifteen years of teaching I often revisit the book to sharpen my presentations to my struggling sixth graders

Love this book. I have learned so much about conceptual knowledge as opposed to procedural that lacks complete understanding.

This book clearly answers a lot of questions I have about the differences between Mathematics teaching in the US and Asia.

[Download to continue reading...](#)

Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (Studies in Mathematical Thinking and Learning Series) Ecuador and the United States: Useful Strangers (United States and the Americas) (United States and the Americas) (The United States and the Americas) Scott 1998 Specialized Catalogue of United States Stamps: Confederate States, Canal Zone, Danish West Indies Guam, Hawaii, United Nations : United ... Catalogue of United States Stamps) Learning: 25 Learning Techniques for Accelerated Learning - Learn Faster by 300%! (Learning, Memory Techniques, Accelerated Learning, Memory, E Learning, ... Learning Techniques, Exam Preparation) China: History of China - History of an Empire: A Historical Overview of China, & East Asia. Including: Ancient China, Communism, & Capitalism (Chinese ... Medicine, Mao Zedung, Confucius Book 1) Elementary and Middle School Mathematics: Teaching Developmentally (8th Edition) (Teaching Student-Centered Mathematics Series) Positive Thinking: How to Eliminate Negative Thinking and Gain Success, Health and Happiness Through Positive Thinking and Self-empowering Affirmations (Positive Thinking Everyday Book 1) Scott Specialized Catalogue of United States Stamps & Covers 2013:

Confederate States-Canal Zone-Danish West Indies-Guam-Hawaii-United Nations: United ...  
Postage Stamp Catalogue: U.S. Specialized) The Rise of China in Asia: Security Implications -  
Senkaku Islands, Taiwan, North Korea on the Brink, Chinese Threat to Neighbors, India's Response  
to China, South China Sea Mathematical Discovery on Understanding, Learning, and Teaching  
Problem Solving, Volume II Elementary Cryptanalysis: A Mathematical Approach (Mathematical  
Association of America Textbooks) Elementary Algebraic Geometry (Student Mathematical Library,  
Vol. 20) (Student Mathematical Library, V. 20) Learn: Cognitive Psychology - How to Learn, Any  
Skill or Subject in 21 Days! (Learn, Learning Disability, Learning Games, Learning Techniques,  
Learning ... Learning, Cognitive Science, Study) Paraguay and the United States: Distant Allies (The  
United States and the Americas) War Plan Red: The United States' Secret Plan to Invade Canada  
and Canada's Secret Plan to Invade the United States A Guide Book of United States Paper Money  
2nd Ed. (Guide Book of United States Paper Money: Complete Source) Illustrated catalogue of  
United States Cartridge Company's collection of firearms : the most complete collection in the  
United States Scott 2017 Specialized United States Postage Stamp Catalogue (Scott Specialized  
Catalogue of United States Stamps) Handbook of United States Coins 2017: The Official Blue Book,  
Paperbook Edition (Handbook of United States Coins (Paper)) Official ANA Grading Standards for  
United States Coins (Official American Numismatic Association Grading Standards for United States  
Coins)

[Dmca](#)