



## Synopsis

Hard Math for Elementary School: Workbook is a workbook to accompany the textbook of the same name. Together the books aim to provide kids who are not challenged by their regular schoolwork with lessons that are harder, deeper, and more fun. The Hard Math textbook (sold separately) is designed to supplement what kids are getting in school. It has chapters related most standard textbook topics: addition with carrying; multiplication; fractions; etc. It covers other important topics â€”prime numbers, counting, probability â€”that are being squeezed out of many curricula. And it has chapters on topics which may not be as importantâ€”tiling floors, solving number puzzles, squaring big numbers in your head, making polyhedra out of marshmallows and toothpicksâ€”but that make the book more fun and develop higher-level reasoning skills. Hard Math for Elementary School: Workbook is an important accompaniment to the textbook. It contains more than 100 worksheets. Each worksheet contains challenging questions that help students solidify their understanding of the material that is explained in the corresponding section of the textbook. Problems in the Hard Math workbook are hard. Some are very, very hard. This reflects the authorâ€™s view that hard is fun. Hopefully, talented students will come to enjoy feeling good when they get problems right instead of feeling bad whenever they get one wrong. Many worksheets contain â€œMaking Connectionsâ€• problems that reinforce what students have learned in previous chapters and â€œChallengeâ€• problems that will make many teachers reach for their copy of the answer key.

## Book Information

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## Customer Reviews

My (gifted 4th grader son) just finished it, doing a page a day on weekends and vacation days. He has never been challenged like this in his life, but he got through it, and, as the textbook suggests,

he's really proud of himself. On top of that, he's seen some of the beauty of math and made a lot of connections (the book is really good with that, having specific problems dedicated to making connections). His favorite sections were the marshmallow figures (obviously) and base (8) (which was also my favorite part of elementary school math back when they were still teaching the New Math). He also really understands the distributive property now and can use it like it is second nature to do mental math or to break down more challenging problems he encounters elsewhere. We hope also that it maybe has made a little dent in his perfectionism, knowing that he can meet a true challenge on a regular basis and surpass it. I don't think there's really anything else out there quite like this book. Edward Zaccaro and Singapore math, though fun, don't provide as much challenge. Other books of difficult problems that we've seen (like those for getting ready for competitions) aren't as fun and don't provide as much scaffolding.

My kids and their friends loved this workbook as well as the textbook-- I would definitely use it for an elementary school math club as a complement to MOEMS or other contest preparation. It is not about contest math, but about inspiring kids to think about math more deeply and creatively than they are asked to in typical school math, with carefully selected topics presented in an engaging style, and great problems to get the kids learning actively. It is a bonus having the problems laid out in this attractive workbook that they get to write in. If you have a kid who is not getting enough out of math in elementary school, definitely try this textbook and workbook at some point! Depending on your kids' level, you should try it anytime from say third to sixth grade...

This is a fantastic workbook. I have a very precocious six year old who likes to do math for fun, and this book offers challenging problems that make him think, which is actually fun for a motivated student. I like that he learns through the challenge problems that math is a process - a process that can take time and multiple steps - and that it feels very rewarding to solve a problem like that. We made up our own little cheer for when he gets a challenge problem, and he loves the idea that he can do hard problems worth celebrating.

We love this math book and accompany work book. Starts easy and teaches in ways other books do not attempt. Great great supplemental math text and this workbook has a good set of problems to go with it. Seems clear and concise.

We read the 1st chapter, and then did the exercises in the workbook for the 1st chapter. I think we

should have done the 1st section of the 1st chapter, and then gone to the workbook. We'll do that starting with the 2nd chapter. I think this is a really good workbook.

If you get the text book, get this workbook. There are not enough problems in the textbook alone. Awesome supplement for math in school. My daughter gets very excited when she gets the challenge problems. The best part of this book is that she does not always get the right answer, so she goes back and does the problems again until she gets it right. Its a great learning tool.

It's a useful book to extend beyond school work. The content is of very high technical quality. Can feel the author's passion into the book.

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