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Math Pythagorean Pythagorean Theorem Pythagorean Calculations Pythagorean Triples Algebra Solving Equations Solving Algebraic Equations Solving Pythagorean Equations Solving for Distance Between Two 2 Points via the Pythagorean Theorem Solving Word Problems with the Pythagorean Theorem Calculating Solving for Area Rectangle Square various Dimensions using the Pythagorean Solving 3-D three-dimensional three dimensional problems in three dimensions using Pythagorean The Pythagorean Proof Algebra Simplifying Expressions Collecting Like Terms Distributive Property Solving Algebraic Equations Variable Variables Geometry Angles Circle Circles Polygon Polygons Triangles Solve for Missing Angle Interior Angle Interior Angles Exterior Angle Exterior Angles Complementary Angles Supplementary Angles Parallel Lines Transversal Transversals Transversal Angle Relationships Alternate Interior Angles Alternate Exterior Angles Vertical Angles Corresponding Angles -----
----- Finally - a math workbook that actually trains your students to independently and methodically solve math problems, while making them show their work in clearly-designated spaces! . . . Designed by a classroom math teacher, Bossy Brocci workbooks are a smarter & better workbook: . . . 1) Step-wise directions are built-in; . . . 2) Clearly-designated workspaces are built-in; . . . 3) Graphs & Tables are built-in; . . . 4) Parallel stripes align the problem-solving process; . . . and 5) Easily-checked Formative & Summative Assessments are included. . . . By embedding math problems within a Graphic Organizer, Bossy Brocci has achieved the elusive Holy Grail of Math Teaching! ----- -Student Workbooks contain just the "blank" worksheets/Graphic Organizers. Teacher Workbooks contain BOTH the "blank" student worksheets/Graphic Organizers AND the Answer Key worksheets, plus Notes, Suggestions & Explanations for the teacher. This is a relatively short workbook focusing on the Pythagorean Theorem and its applications. The Pythagorean Theorem is actually not part of the Common Core Standards for seventh grade. The Common Core places it in eighth grade. However, I have included it in this curriculum because it is a traditional topic in pre-algebra. That way, Math Mammoth Grade 7 works as a full pre-algebra curriculum while fully meeting (and exceeding) the Common Core Standards for grade 7. First, students need to become familiar with square roots, so they can solve the equations that result from applying the Pythagorean Theorem. The first lesson of the workbook introduces taking a square root as the opposite operation to squaring a number. The lesson includes both applying a guess-and-check method and using a calculator to find the square root of a number. Next, students learn how to solve simple equations that include taking a square root. This makes them fully ready to study the Pythagorean Theorem and apply it. The Pythagorean Theorem is introduced in the lesson by that name. Students learn to verify that a triangle is a right triangle by checking if it fulfills the Pythagorean Theorem. They apply their knowledge about square roots and solving equations to solve for an unknown side in a right triangle when two of the sides are given. Next, students solve a variety of geometric and real-life problems that require the Pythagorean Theorem. This theorem is extremely important in many practical situations. Students should show their work for these word problems to include the equation that results from applying the Pythagorean Theorem to the problem and its solution. There are literally hundreds of proofs for the Pythagorean Theorem. In this workbook, we present one easy proof based on geometry (not algebra). As an exercise, students are asked to supply the steps of reasoning to another geometric proof of the theorem, and for those interested, the lesson also provides an Internet link that has even more proofs of this theorem. The task of developing algorithms to solve problems has always been considered by mathematicians to be an especially interesting and important one. Normally an algorithm is applicable only to a narrowly limited group of problems. Such is for instance the Euclidean algorithm, which determines the greatest common divisor of two numbers, or the well-known procedure which is used to obtain the square root of a natural number in decimal notation. The more important these special algorithms are, all the more desirable it seems to have algorithms of a greater range of applicability at one's disposal. Throughout the centuries, attempts to provide algorithms applicable as widely as possible were rather unsuccessful. It was only in the second half of the last century that the first appreciable advance took place. Namely, an important group of the inferences of the logic of predicates was given in the form of a calculus. (Here the Boolean algebra played an essential pioneer role.) One could now perhaps have conjectured that all mathematical problems are solvable by algorithms. However, well-known, yet unsolved problems (problems like the word problem of group theory or Hilbert's tenth problem, which considers the question of solvability of Diophantine equations) were warnings to be careful. Nevertheless, the impulse had been given to search for the essence of algorithms. Leibniz already had inquired into this problem, but without success. Elementary Algebra covers: Signed Number and Real Number Operations; Order of Operations and Evaluation of Expressions; Exponential Notation and Rules of Exponents; Polynomial addition, subtraction, multiplication, and division; Solving First Degree Equations; Word Problems; Ratio and Proportion; Factoring Polynomials; Solving quadratic equations by factoring & applications; Graphs, Slopes, Intercepts and Equations of Straight Lines; Solving Systems of Linear Equations and Word Problems; Radicals, square roots, addition & multiplication of radicals; Pythagorean Theorem and Applications; Areas and Perimeters; Algebraic Fractions (reduction, multiplication, division & addition); Solving Linear inequalities. This Festschrift is published in honor of Yuri Gurevich's 75th birthday. Yuri Gurevich has made fundamental contributions on the broad spectrum of logic and computer science, including decision procedures, the monadic theory of order, abstract state machines, formal methods, foundations of computer science, security, and much more. Many of these areas are reflected in the 20 articles in this Festschrift and in the presentations at the "Yurifest" symposium, which was held in Berlin, Germany, on September 11 and 12, 2015. The Yurifest symposium was co-located with the 24th EACSL Annual Conference on Computer Science Logic (CSL 2015). From the reviews: "This book [...] defines the boundaries of the subject now called combinatorial group theory. [...] it is a considerable achievement to have concentrated a survey of the subject into 339 pages. [...] a valuable and welcome addition to the literature, containing many results not previously available in a book. It will undoubtedly become a standard reference." Mathematical Reviews Covers percentages, probability, proportions, and more Get a grip on all types of word problems by applying them to real life Are you mystified by math word problems? This easy-to-understand guide shows you how to conquer these tricky questions with a step-by-step plan for finding the right solution each and every time, no matter the kind or level of problem. From learning math lingo and performing operations to calculating formulas and writing equations, you'll get all the skills you need to succeed! Discover how to: * Translate word problems into plain English * Brush up on basic math skills * Plug in the right operation or formula * Tackle algebraic and geometric problems * Check your answers to see if they work Two complete ebooks for one low price! Created and compiled by the publisher, this SAT bundle brings together two of the bestselling For Dummies SAT guides in one, e-only bundle. With this special bundle, you'll get the complete text of the following titles: SAT For Dummies, 8th Edition Whether you are a student struggling with math, reading, or writing essays, this updated edition of SAT For Dummies offers advice for tackling the toughest questions, as well as hints and tips for making the most of the time available to complete each section. SAT For Dummies is packed with 5 full-length practice tests with detailed answers and explanations, review of foundational concepts for every section, from identifying root words and using commas correctly to solving math word problems and using the quadratic formula. SAT For Dummies gives you the edge you need to successfully achieve the highest score possible! SAT Math For Dummies Scoring well on the mathematics section of the SAT exam isn't guaranteed by getting good grades in Algebra and Geometry. Turn to SAT Math For Dummies for expert advice on translating your classroom success into top scores. Loaded with test-taking strategies, two practice tests, and hundreds of problems with detailed solutions and explanations, SAT Math For Dummies helps you maximize your scores in no time. About the Authors of SAT For Dummies, 8th Edition Geraldine Woods has prepared students for the SAT, both academically and emotionally, for the past three decades. She also teaches English and directs the independent-study program at the Horace Mann School in New York City. She is the author of more than 50 books, including English Grammar For Dummies, 2nd Edition; English Grammar Workbook For Dummies, 2nd Edition; Grammar Essentials For Dummies; Research Papers For Dummies; College Admission Essays For Dummies; AP English Literature and AP English Language & Composition For Dummies, all published by Wiley. She lives in New York City with her husband and two parakeets. Peter Bonfanti has taught high school math in New York City since 1996. Before that, he lived in Pennsylvania and was a monk. Before that, he went to school in New Jersey, where he was born and hopes to return someday. Kristin Josephson survived the college admissions process only to drop out of MIT 16 months later to attend circus school in San Francisco. While there, she studied flying trapeze, trampoline, and acrobatics. Kristin discovered her passion for teaching while she was tutoring in the Bay Area, a passion that led her to complete her degree at Colorado College. Kristin eventually landed at the Horace Mann School, where she has been teaching high school mathematics since 2007. About the Author of SAT Math For Dummies Mark Zegarelli holds degrees in math and English from Rutgers University. He is a math tutor and writer with over 25 years of professional experience. Zegarelli has written numerous Dummies books, including LSAT Logic Games For Dummies and Basic Math & Pre-Algebra Workbook For Dummies. In this great addition to the MATH BUSTERS WORD PROBLEMS series, veteran math author Rebecca Wingard-Nelson teaches students how to conquer tricky geometry word problems using examples from a teen's modern life. Word problems don't have to be a problem! Free downloadable worksheets

available for this book on www.enslow.com. Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions. A perennial bestseller by eminent mathematician G. Polya, *How to Solve It* will show anyone in any field how to think straight. In lucid and appealing prose, Polya reveals how the mathematical method of demonstrating a proof or finding an unknown can be of help in attacking any problem that can be "reasoned" out—from building a bridge to winning a game of anagrams. Generations of readers have relished Polya's deft—indeed, brilliant—instructions on stripping away irrelevancies and going straight to the heart of the problem. Spectrum(R) Word Problems for grade 8 includes practice for essential math skills, such as real world applications, multi-step word problems, variables, ratio and proportion, perimeter, area and volume, percents, statistics and more. Spectrum(R) Word Problems supplement to classroom work and proficiency test preparation. The series provides examples of how the math skills students learn in school apply to everyday life with challenging, multi-step word problems. It features practice with word problems that are an essential part of the Common Core State Standards. Word problem practice is provided for essential math skills, such as fractions, decimals, percents, metric and customary measurement, graphs and probability, and preparing for algebra and more. Imagine that you assign a math problem and your students, instead of getting discouraged after not solving it on the first attempt, start working harder—as if on a quest to figure out the answer. They talk to each other and enthusiastically share their discoveries. What could possibly make this fantastic scenario come true? The answer is: the Open Middle math problems and strategies in this book. Open Middle Math by Robert Kaplinsky gives middle and high school teachers the problems and planning guidance that will encourage students to see mathematics in an entirely different light. These challenging and rewarding Open Middle math problems will help you see your students build genuine conceptual understanding, perseverance, and creativity. Inside, you'll learn how to: Implement Open Middle math problems that are simultaneously accessible for both students who are struggling and those looking for more challenge. Select and create Open Middle math problems that will help you detect students' misconceptions and strengthen their conceptual understanding. Prepare for and facilitate powerful classroom conversations using Open Middle math problems. Access resources that will help you continue learning beyond this book. With these practical and intuitive strategies, extensive resources, and Robert's own stories about his journey learning to use Open Middle math problems successfully, you will be able to support, challenge, and motivate all your students. The origins of the word problem are in group theory, decidability and complexity. But through the vision of M. Gromov and the language of filling functions, the topic now impacts the world of large-scale geometry. This book contains accounts of many recent developments in Geometric Group Theory and shows the interaction between the word problem and geometry continues to be a central theme. It contains many figures, numerous exercises and open questions. Math Algebra Simplifying Expressions Collecting Like Terms Distributive Property Solving Algebraic Equations Solving Algebraic Inequalities Solving Formula Formulas Variable Variables Geometry Angles Circle Circles Polygon Polygons Triangles Solve for Missing Angle Interior Angle Interior Angles Exterior Angle Exterior Angles Complementary Angles Supplementary Angles Parallel Lines Transversal Transversals Transversal Angle Relationships Alternate Interior Angles Alternate Exterior Angles Vertical Angles Corresponding Angles Cross-Products Algebra Solving Proportions Algebraically Solving Algebraic Equations Proportions and Indirect Measurement Shadow Reckoning Similar Triangles Word Problems Pythagorean Theorem Pythagorean Calculations Pythagorean Triples Algebra Solving Equations Solving Algebraic Equations Solving Pythagorean Equations Solving for Distance Between Two 2 Points via the Pythagorean Theorem Solving Word Problems with the Pythagorean Theorem Calculating Solving for Area Rectangle Square various Dimensions using the Pythagorean Solving 3-D three-dimensional three dimensional problems in three dimensions using Pythagorean Theorem - - - By popular demand from cash-strapped teachers and school districts, 'Bossy Brocci's Algebra Hits' was created using various worksheets taken from three of his previous comprehensive books. . . . 'Bossy Brocci's Algebra Hits' gives your students a huge dose of high-use algebra all in one convenient workbook. . . . Student Workbooks contain just the "blank" worksheets/Graphic Organizers. . . . Teacher Workbooks contain BOTH the "blank" student worksheets/Graphic Organizers AND the Answer Key worksheets, plus Notes, Suggestions & Explanations for the teacher. 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Designed by a classroom math teacher, Bossy Brocci workbooks are a smarter & better workbook: . . . 1) Step-wise directions are built-in; . . . 2) Clearly-designated workspaces are built-in; . . . 3) Graphs & Tables are built-in; . . . 4) Parallel stripes align the problem-solving process; . . . and 5) Easily-checked Formative & Summative Assessments are included. . . . By embedding math problems within a Graphic Organizer, Bossy Brocci has achieved the elusive Holy Grail of Math Teaching! ----- Student Workbooks contain just the "blank" worksheets/Graphic Organizers. Teacher Workbooks contain BOTH the "blank" student worksheets/Graphic Organizers AND the Answer Key worksheets, plus Notes, Suggestions & Explanations for the teacher. The New York City Specialized High School Admissions Test (SHSAT) is offered to all eighth and ninth-grade students residing within the five boroughs of NYC who wish to attend a specialized high school. Peterson's comprehensive resource provides you with valuable preparation which includes 10 practice tests covering scrambled paragraphs, reading comprehension, logical reasoning, word problems, algebra, and geometry. Every question is accompanied by our expert detailed answer explanations that are sure to help you boost your test-prep efforts to score high on the exam. You'll also discover important information about the exam format and scoring as well as information about the specialized high schools and testing locations. There is also a bonus section which includes 2 practice tests for the Hunter College H.S. Entrance Examination which is administered each January to all sixth-grade students residing within the five boroughs of NYC who meet specific criteria in reading and mathematics. Most 9th grade math, or "Algebra 1," textbooks are structured in such a way that students find it extremely difficult to apply pertinent mathematical concepts and skills to the solving of word problems. This book soothes math students' fears with numerous solved practice problems, step-by-step problem-solving procedures, and crystal-clear explanations of important mathematical concepts. Designed to be used independently or in conjunction with standard textbooks. Over 300 unusual problems, ranging from easy to difficult, involving equations and inequalities, Diophantine equations, number theory, quadratic equations, logarithms, more. Detailed solutions, as well as brief answers, for all problems are provided. Provides a simple approach to learning the mechanics of word-problem solving in geometry. The Compressed Word Problem for Groups provides a detailed exposition of known results on the compressed word problem, emphasizing efficient algorithms for the compressed word problem in various groups. The author presents the necessary background along with the most recent results on the compressed word problem to create a cohesive self-contained book accessible to computer scientists as well as mathematicians. Readers will quickly reach the frontier of current research which makes the book especially appealing for students looking for a currently active research topic at the intersection of group theory and computer science. The word problem introduced in 1910 by Max Dehn is one of the most important decision problems in group theory. For many groups, highly efficient algorithms for the word problem exist. In recent years, a new technique based on data compression for providing more efficient algorithms for word problems, has been developed, by representing long words over group generators in a compressed form using a straight-line program. Algorithmic techniques used for manipulating compressed words has shown that the compressed word problem can be solved in polynomial time for a large class of groups such as free groups, graph groups and nilpotent groups. These results have important implications for algorithmic questions related to automorphism groups. The difference between high scorers and low scorers on the SAT Math is WORD PROBLEMS. Students who excel at setting up and solving word problems do much better than those who don't. The SAT Math Review Book for People Who Hate Math offers a complete word problem review. Topics include: translating from English into algebra, ratios and proportions, distance, mixture, rate of work, age, money, Pythagorean Theorem, similar triangles, quadrilateral, circles, sphere, and cylinders. There are over 150 pages devoted solely to the teaching of word problems. Naturally, other subjects are covered completely also. There is a thorough review of equation solving, squares and square roots, order of operations, prime numbers, integers, basic geometry, and data analysis. Written by an author with 25 years of teaching and tutoring experience, The SAT Math Review Book for People Who Hate Math offers step-by-step instruction in an easy-to-read style. If conventional review books leave you frustrated, try this book for a pleasant introduction to a subject that many students find intimidating. This book constitutes the refereed proceedings of the 8th International Conference on Developments in Language Theory, DLT 2004, held in Auckland, New Zealand in December 2004. The 30 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 47 submissions. The main subjects are formal languages, automata, conventional and unconventional computation theory, and applications of automata theory. Among the topics addressed are grammars and acceptors for strings, graphs, and arrays; efficient text algorithms, combinatorial and algebraic properties of languages; decision problems; relations to complexity theory and logic; picture description and analysis; cryptography; concurrency; DNA computing; and quantum computing. This geometry workbook includes: 64 proofs with full solutions, 9 examples to help serve as a guide, and a review of terminology, notation, and concepts. A variety of word topics are covered, including: similar and congruent triangles, the Pythagorean theorem, circles, chords, tangents, alternate interior angles, the triangle inequality, the angle sum theorem, quadrilaterals, regular polygons, area of plane figures, inscribed and circumscribed figures, and the centroid of a triangle. The author, Chris McMullen, Ph.D., has over twenty years of experience teaching math skills to physics students. He prepared this workbook to share his strategies for writing geometry proofs. 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Some benefits of Geometrical Quickies & Trickies are: * Over 200 non-routine geometry questions to separate the nerd of mathletes from the herd of drill-and-kill specialists; * Trick and tricky questions to meet the mathematical needs and wants of students- and teachers-problem solvers; * Twenty enrichment geometry units to promote an appreciation for recreational mathematics; * Hints and solutions, and a reference list for more practice on quickies and tricks. Geometrical Quickies & Trickies is suitable for grades 6-9 problem solvers and mathletes, and for teachers and tutors who desire to challenge (or torture) their students mathematically. Contents 1. What is a Circle? 2. Three Famous (or Notorious) Geometrical Problems 3. Non-Euclidean Geometry for Goondus 4. How Many Regions? 5. That Holy Little Geometry Book 6. Fun with Areas and Perimeters 7. Always a Parallelogram! 8. The Malfatti's Problem 9. The Beauty of Pi 10. The Zero Option 11. The Golden Ratio by Paper Folding 12. The Ubiquity of Phi 13. Matchstick Mathematics 14. The Rolling Circle Question 15. Two Useful Circle Properties 16. Proving the Obvious 17. Sangaku—Japanese Temple Geometry 18. Applications of Pythagorean Theorem 19. Visualizing Infinity 20. Geometrical Idiosyncrasies Answers/Hints/Solutions Bibliography & References Practice makes perfect! Get perfect with a thousand and one practice problems! 1,001 Geometry Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems that deal with core geometry topics, such as points, lines, angles, and planes, as well as area and volume of shapes. You'll also find practice problems on more advanced topics, such as proofs, theorems, and postulates. The companion website gives you free online access to 500 practice problems and solutions. You can track your progress and ID where you should focus your study time. The online component works in conjunction with the book to help you polish your skills and build confidence. As the perfect companion to Geometry For Dummies or a stand-alone practice tool for students, this book & website will help you put your geometry skills into practice, encouraging deeper understanding and retention. The companion website includes: Hundreds of practice problems Customizable practice sets for self-directed study Problems ranked as easy, medium, and hard Free one-year access to the online questions bank With 1,001 Geometry Practice Problems For Dummies, you'll get the practice you need to master geometry and gain confidence in the classroom. Make math matter to students in grades 6 and up using Algebra: Daily Skill Builders! This 96-page book features two short, reproducible activities per page and includes enough lessons for an entire school year. It covers topics such as number patterns, word problems, equations, tables, graphs, linear relationships, variables, contextualized problems, properties, order of operations, and exponents. Activities become more challenging as students build upon what they have learned. The book is perfect for review and practice and supports NCTM standards. Elementary Algebra covers: Signed Number and Real Number Operations; Order of Operations and Evaluation of Expressions; Exponential Notation and Rules of Exponents; Polynomial addition, subtraction, multiplication, and division; Solving First Degree Equations; Word Problems; Factoring Polynomials; Solving quadratic equations by factoring & applications; Graphs, Slopes, Intercepts and Equations of Straight Lines; Solving Systems of Linear Equations and Word Problems; Radicals, square roots, addition & multiplication of radicals; Pythagorean Theorem and Applications; Areas and Perimeters; Algebraic Fractions (reduction, multiplication, division & addition); Solving Linear inequalities. Extra topics include Quadratic Equations, Functions, Relations, Functional Notation, Sketching Parabola, Solving Fractional or Rational Equations, Solving Radical Equations, Basic Review for Geometry The author introduces and studies the bounded word problem and the precise word problem for groups given by means of generators and defining relations. For example, for every finitely presented group, the bounded word problem is in NP, i.e., it can be solved in nondeterministic polynomial time, and the precise word problem is in PSPACE, i.e., it can be solved in polynomial space. The main technical result of the paper states that, for certain finite presentations of groups, which include the Baumslag-Solitar one-relator groups and free products of cyclic groups, the bounded word problem and the precise word problem can be solved in polylogarithmic space. As consequences of developed techniques that can be described as calculus of brackets, the author obtains polylogarithmic space bounds for the computational complexity of the diagram problem for free groups, for the width problem for elements of free groups, and for computation of the area defined by polygonal singular closed curves in the plane. The author also obtains polynomial time bounds for these problems. The aim of this book is to present the subject matter of arithmetic, geometry, and algebra with the utmost clarity and simplicity. It is based on the mathematical subjects required in four years of high school study and will prepare the student with the skills necessary to pass the GED Mathematics Test. The text consists of ten chapters with a review of geometry and algebra because of the many concepts introduced in these particular subjects. The last chapter is devoted to a practice test consisting of questions and problems similar to those presented on the real GED test. Answers to the practice test are provided with detailed explanations of the suggested method of solving each problem. Each chapter opens with a brief introduction before developing the ideas and facts of the subject matter. In order to give the student an insight into the principle involved, many examples are given to provide an understanding of the topic rather than to just offer a rule. The examples enable students to proceed at their own pace, in accordance with their individual needs. Problems are then introduced for the student to solve so as to stimulate clear and organized thinking. Answers to the problems are included at the end of each chapter thus helping to reinforce the students' knowledge step by step. Due to the fact that the language is direct, and the method of presentation is concerned with essentials only, the skills can be learned by anyone willing to spend some time in self-study. Also, even though simplified, this book of mathematics is complete and authoritative. It is recommended for use in home schooling, as a supplementary text, or as a gateway to advanced math and science. Considered to be the hardest mathematical problems to solve, word problems continue to terrify students across all math disciplines. This new title in the World Problems series demystifies these difficult problems once and for all by showing even the most math-phobic readers simple, step-by-step tips and techniques. How to Solve World Problems in Calculus reviews important concepts in calculus and provides solved problems and step-by-step solutions. Once students have mastered the basic approaches to solving calculus word problems, they will confidently apply these new mathematical principles to even the most challenging advanced problems. Each chapter features an introduction to a problem type, definitions, related theorems, and formulas. Topics range from vital pre-calculus review to traditional calculus first-course content. Sample problems with solutions and a 50-problem chapter are ideal for self-testing. Fully explained examples with step-by-step solutions. For every finitely generated recursively presented group G we construct a finitely presented group H containing G such that G is (Frattini) embedded into H and the group H has solvable conjugacy problem if and only if G has solvable conjugacy problem. Moreover G and H have the same Turing degrees of the conjugacy problem. This solves a problem by D. Collins. This book shows new directions in group theory motivated by computer science. It reflects the transition from geometric group theory to group theory of the 21st century that has strong connections to computer science. Now that geometric group theory is drifting further and further away from group theory to geometry, it is natural to look for new tools and new directions in group theory which are present.

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