

Big Math Ideas Answers

Chapter 3 Practice Test B

3.1B

$$\begin{aligned} \$ \text{ saved} + \$ \text{ earned} &= \$ \text{ total cost} \\ \$170 + \$30m &= \$380 \end{aligned}$$

$m = 7 \text{ months}$

20. You are saving money to buy a DVD recorder. The DVD recorder costs \$380. You have already saved \$170. You can save an additional \$30 each month.

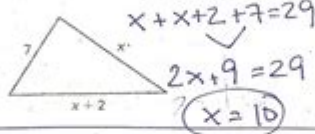
a. Write a variable expression to represent the total amount of money you have saved after m months. Evaluate your expression for the first 6 months. Record your results in a table.

How many months to save enough \$?

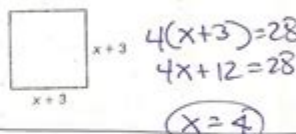
3.2B

Find the value of x for the given triangle, rectangle, or square.

13. Perimeter = 29 units



14. Perimeter = 28 units



3.2B

18. A class of 42 students and 2 teachers plan a trip to an observatory. The class has raised \$485 for the trip. Admission is \$5 per person and bus rental is \$230. With the remaining money, the class can invite guests to fill the remaining seats on the bus. Write and solve an equation to find the number of guests g the class can invite.

$$230 + 5(44 + x) = 485$$

19. A plumber charges \$30 per hour and \$42 for each hour of overtime. For a job, the plumber works 3 regular hours, h overtime hours, and charges \$195 for new parts. The total amount of the bill for the job is \$390. Write and solve an equation to find the number of overtime hours the plumber worked.

reg hrs + over-time + parts = total cost

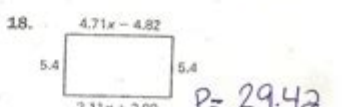
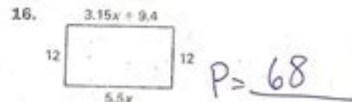
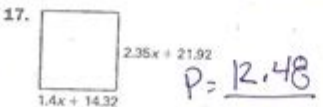
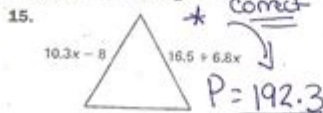
$$30(3) + 42x + 195 = 390$$

$x = 2.5 \text{ hours}$

3.3c
Hints:

- 1) Solve for x
- 2) Subst # in one side for x
get length of one side
- 3) Add all sides = Perimeter

Find the perimeter of the triangle, rectangle, or square. The sides of the triangle are equal in length.



Big Math Ideas Answers: Unlocking Mathematical Understanding

Are you struggling to grasp the core concepts behind seemingly complex mathematical ideas? Do you find yourself memorizing formulas without truly understanding why they work? This comprehensive guide dives deep into the "Big Math Ideas," providing clear explanations, practical examples, and insightful answers to help you build a solid foundation in mathematics. We'll tackle key concepts, breaking them down into manageable chunks to illuminate the "aha!" moments you've been searching for. Prepare to conquer your mathematical challenges and unlock a deeper appreciation for the beauty and logic of numbers.

Understanding the Fundamentals: Building a Strong Mathematical Foundation

Before we delve into specific "big ideas," let's establish a bedrock understanding. Many struggles in advanced math stem from weaknesses in fundamental concepts. Mastering these basics is crucial for tackling more complex topics.

1. Number Systems and Operations:

A thorough understanding of different number systems (natural numbers, integers, rational numbers, real numbers, and complex numbers) and their operations (addition, subtraction, multiplication, and division) is paramount. Grasping the properties of these operations (commutativity, associativity, distributivity) unlocks the ability to manipulate equations and solve problems efficiently.

2. Algebraic Reasoning:

Algebra is the language of mathematics. Developing strong algebraic reasoning skills, including solving equations and inequalities, manipulating expressions, and understanding functions, is essential for success in higher-level math. Focus on understanding the underlying logic behind each step rather than rote memorization.

3. Geometry and Spatial Reasoning:

Geometry introduces us to shapes, sizes, and spatial relationships. Understanding fundamental geometric concepts, such as angles, lines, shapes, and their properties, forms the base for more advanced topics like trigonometry and calculus. Spatial reasoning – the ability to visualize and manipulate objects in space – is also incredibly important.

Tackling the Big Math Ideas: From Ratios to Calculus

Now, let's address some of the major mathematical concepts that often pose significant challenges:

1. Ratios and Proportions:

Understanding ratios and proportions is fundamental to many areas of mathematics and science. Mastering the concept of equivalent ratios and solving proportions using cross-multiplication opens doors to understanding percentages, scaling, and similar figures.

2. Functions and Their Graphs:

Functions are a cornerstone of higher mathematics. Understanding function notation, domain and range, and different types of functions (linear, quadratic, exponential, logarithmic) is essential. Being able to visualize functions through their graphs provides a powerful tool for problem-solving.

3. Probability and Statistics:

Probability and statistics deal with uncertainty and data analysis. Understanding basic probability concepts, like independent events and conditional probability, lays the foundation for understanding statistical analysis, including mean, median, mode, and standard deviation. This is crucial for interpreting data in various fields.

4. Calculus: The Study of Change:

Calculus, often considered the pinnacle of mathematical achievement, deals with rates of change. Differential calculus explores instantaneous rates of change (derivatives), while integral calculus explores accumulation (integrals). These concepts are applied extensively in physics, engineering, and economics. While initially challenging, breaking down the concepts into smaller, manageable parts makes it accessible.

Strategies for Mastering Big Math Ideas

Successfully tackling these big ideas requires more than just passively reading definitions. Here are some strategies to enhance your understanding:

Active Learning: Don't just read; actively engage with the material. Work through examples, solve practice problems, and test your understanding.

Seek Clarification: Don't hesitate to ask questions when you're stuck. Consult textbooks, online resources, or seek help from teachers or tutors.

Practice Regularly: Consistent practice is key to mastering mathematics. Regular practice helps reinforce concepts and identify areas needing improvement.

Connect Concepts: Look for connections between different mathematical ideas. Understanding how concepts relate to each other can enhance your overall comprehension.

Conclusion

Understanding the "Big Math Ideas" isn't about memorization; it's about building a strong foundation and developing a deep understanding of the underlying principles. By focusing on fundamental concepts, employing effective learning strategies, and consistently practicing, you can conquer mathematical challenges and unlock your potential. Remember, mathematics is a journey, not a race. Embrace the process, celebrate your progress, and enjoy the rewards of mathematical mastery.

FAQs

1. What resources are available for learning more about these Big Math Ideas?

Many excellent online resources, textbooks, and educational videos can supplement your learning. Khan Academy, Coursera, edX, and YouTube channels dedicated to mathematics offer valuable content.

2. How can I improve my problem-solving skills in math?

Practice consistently, start with simpler problems, and gradually increase the difficulty. Focus on understanding the underlying principles rather than just finding the answer. Break down complex problems into smaller, manageable parts.

3. Is it possible to learn advanced math without a strong foundation?

While it's possible to memorize formulas and techniques, a strong foundation is crucial for true understanding and application. Addressing weaknesses in fundamental concepts will significantly improve your ability to grasp more advanced topics.

4. What if I'm struggling with a specific concept?

Don't get discouraged! Seek help from teachers, tutors, or online resources. Break down the concept into smaller parts, and focus on mastering each part individually.

5. How can I stay motivated while learning mathematics?

Set realistic goals, celebrate your progress, and focus on the long-term benefits of mathematical proficiency. Find connections between math and your interests to make learning more engaging.

big math ideas answers: *Algebra 1*, 2014-07-22 This student-friendly, all-in-one workbook contains a place to work through Explorations as well as extra practice worksheets, a glossary, and manipulatives. The Student Journal is available in Spanish in both print and online.

big math ideas answers: Big Ideas Math Ron Larson, Laurie Boswell, 2015 The Skills Review and Basic Skills Handbook provides examples and practice for on-level or below-level students needing additional support on a particular skill. This softbound handbook provides a visual review of skills for students who are struggling or in need of additional support.

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research, coaching, and through collaborating with teams, teachers and colleagues—especially new teachers—every day. Questions and answers are organized into five areas of effort that will help you most thrive in your elementary math classroom: 1. How do I build a positive math community? 2. How do I structure, organize, and manage my math class? 3. How do I engage my students in math? 4. How do I help my students talk about math? 5. How do I know what my students know and move them forward? Woven throughout, you'll find helpful sidebar notes on fostering identity and agency; access and equity; teaching in different settings; and invaluable resources for deeper learning. The final question—Where do I go from here?— offers guidance for growing your practice over time. Strive to become the best math educator you can be; your students are counting on it! What will be your first step on the journey?

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big math ideas answers: Answers to Your Biggest Questions About Teaching Secondary Math Frederick L. Dillon, Ayanna D. Perry, Andrea Cheng, Jennifer Outzs, 2022-03-22 Let's face it, teaching secondary math can be hard. So much about how we teach math today may look and feel different from how we learned it. Teaching math in a student-centered way changes the role of the teacher from one who traditionally delivers knowledge to one who fosters thinking. Most importantly, we must ensure our practice gives each and every student the opportunity to learn, grow, and achieve at high levels, while providing opportunities to develop their agency and authority in the classroom which results in a positive math identity. Whether you are a brand new teacher or a veteran, if you find teaching math to be quite the challenge, this is the guide you want by your side. Designed for just-in-time learning and support, this practical resource gives you brief, actionable answers to your most pressing questions about teaching secondary math. Written by four experienced math educators representing diverse experiences, these authors offer the practical advice they wish they received years ago, from lessons they've learned over decades of practice, research, coaching, and through collaborating with teams, teachers and colleagues—especially new teachers—every day. Questions and answers are organized into five areas of effort that will help you most thrive in your secondary math classroom: How do I build a positive math community? How do I structure, organize, and manage my math class? How do I engage my students in math? How do I help my students talk about math? How do I know what my students know and move them forward? Woven throughout, you'll find helpful sidebar notes on fostering identity and agency; access and equity; teaching in different settings; and invaluable resources for deeper learning. The final question—Where do I go from here?— offers guidance for growing your practice over time. Strive to become the best math educator you can be; your students are counting on it! What will be your first step on the journey?

big math ideas answers: Big Ideas Math , 2013-01-16 Consistent with the philosophy of the Common Core State Standards and Standards for Mathematical Practice, the Big Ideas Math Student Edition provides students with diverse opportunities to develop problem-solving and communication skills through deductive reasoning and exploration. Students gain a deeper understanding of math concepts by narrowing their focus to fewer topics at each grade level. Students master content through inductive reasoning opportunities, engaging activities that provide deeper understanding, concise, stepped-out examples, rich, thought-provoking exercises, and a continual building on what has previously been taught.

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guide to grow and learn as a math teacher! Let's face it, teaching elementary math can be hard. So much about how we teach math today may look and feel different from how we learned it. Today, we recognize placing the student at the center of their learning increases engagement, motivation, and academic achievement soars. Teaching math in a student-centered way changes the role of the teacher from one who traditionally "delivers knowledge" to one who fosters thinking. Most importantly, we must ensure our practice gives each and every student the opportunity to learn, grow, and achieve at high levels, while providing opportunities to develop their agency and authority in the classroom which results in a positive math identity. Whether you are a brand new teacher or a veteran, if you find teaching math to be quite the challenge, this is the guide you want by your side. Designed for just-in-time learning and support, this practical resource gives you brief, actionable answers to your most pressing questions about teaching elementary math. Written by four experienced math educators representing diverse experiences, these authors offer the practical advice they wish they received years ago, from lessons they've learned over decades of practice, research, coaching, and through collaborating with teams, teachers and colleagues—especially new teachers—every day. Questions and answers are organized into five areas of effort that will help you most thrive in your elementary math classroom: 1. How do I build a positive math community? 2. How do I structure, organize, and manage my math class? 3. How do I engage my students in math? 4. How do I help my students talk about math? 5. How do I know what my students know and move them forward? Woven throughout, you'll find helpful sidebar notes on fostering identity and agency; access and equity; teaching in different settings; and invaluable resources for deeper learning. The final question—Where do I go from here?— offers guidance for growing your practice over time. Strive to become the best math educator you can be; your students are counting on it! What will be your first step on the journey?

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big math ideas answers: The Math Book DK, 2019-09-03 See how math's infinite mysteries and beauty unfold in this captivating educational book! Discover more than 85 of the most important mathematical ideas, theorems, and proofs ever devised with this beautifully illustrated book. Get to know the great minds whose revolutionary discoveries changed our world today. You don't have to be a math genius to follow along with this book! This brilliant book is packed with short, easy-to-grasp explanations, step-by-step diagrams, and witty illustrations that play with our ideas about numbers. What is an imaginary number? Can two parallel lines ever meet? How can math help us predict the future? All will be revealed and explained in this encyclopedia of mathematics. It's as easy as 1-2-3! The Math Book tells the exciting story of how mathematical thought advanced through history. This diverse and inclusive account will have something for everybody, including the math behind world economies and espionage. This book charts the development of math around the world, from ancient mathematical ideas and inventions like prehistoric tally bones through developments in medieval and Renaissance Europe. Fast forward to today and gain insight into the recent rise of game and group theory. Delve in deeper into the history of math: - Ancient and Classical Periods 6000 BCE - 500 CE - The Middle Ages 500 - 1500 - The Renaissance 1500 - 1680 - The Enlightenment 1680 - 1800 - The 19th Century 1800 - 1900 - Modern Mathematics 1900 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Math Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

big math ideas answers: Big Ideas Math Integrated Mathematics III Houghton Mifflin Harcourt, 2016

big math ideas answers: Big Ideas Math Course 3 Ron Larson, Big Ideas Learning, LLC., Laurie Boswell, 2015 The Big Ideas Math program balances conceptual understanding with procedural fluency. Embedded Mathematical Practices in grade-level content promote a greater understanding of how mathematical concepts are connected to each other and to real-life, helping turn mathematical learning into an engaging and meaningful way to see and explore the real world.

big math ideas answers: Beyond Answers Mike Flynn, 2023-10-10 Beyond Answers: Exploring

Mathematical Practices with Young Children, author Mike Flynn provides teachers with a clear and deep sense of the Standards for Mathematical Practice and shares ideas on how to best implement them in K-2 classrooms. Each chapter is dedicated to one of the eight common core standards. Using examples from his own teaching and vignettes from many other K-2 teachers, Flynn does the following: Invites you to break the cycle of teaching math procedurally Demonstrates what it means for children to understand not just do math Explores what it looks like when young children embrace the important behaviors espoused by the practices The book's extensive collection of stories from K-2 classroom provides readers with glimpses of classroom dialogue, teacher reflections, and examples of student work. Focus questions at the beginning of each vignette help you analyze the examples and encourage further reflection. Beyond Answers is a wonderful resource that can be used by individual teachers, study groups, professional development staff, and in math methods courses.

big math ideas answers: *Ask a Manager* Alison Green, 2018-05-01 From the creator of the popular website Ask a Manager and New York's work-advice columnist comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There's a reason Alison Green has been called "the Dear Abby of the work world." Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don't know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You'll learn what to say when • coworkers push their work on you—then take credit for it • you accidentally trash-talk someone in an email then hit "reply all" • you're being micromanaged—or not being managed at all • you catch a colleague in a lie • your boss seems unhappy with your work • your cubemate's loud speakerphone is making you homicidal • you got drunk at the holiday party Praise for Ask a Manager "A must-read for anyone who works . . . [Alison Green's] advice boils down to the idea that you should be professional (even when others are not) and that communicating in a straightforward manner with candor and kindness will get you far, no matter where you work."—Booklist (starred review) "The author's friendly, warm, no-nonsense writing is a pleasure to read, and her advice can be widely applied to relationships in all areas of readers' lives. Ideal for anyone new to the job market or new to management, or anyone hoping to improve their work experience."—Library Journal (starred review) "I am a huge fan of Alison Green's Ask a Manager column. This book is even better. It teaches us how to deal with many of the most vexing big and little problems in our workplaces—and to do so with grace, confidence, and a sense of humor."—Robert Sutton, Stanford professor and author of *The No Asshole Rule* and *The Asshole Survival Guide* "Ask a Manager is the ultimate playbook for navigating the traditional workforce in a diplomatic but firm way."—Erin Lowry, author of *Broke Millennial: Stop Scraping By and Get Your Financial Life Together*

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big math ideas answers: *The Dragon Curve* Alicia Burdess, 2021-07-16 Aiyana finds a long, skinny strip of paper on the ground that looks like a road. As she follows the road, she folds the paper in half, and it becomes a mountain for her to climb. With every fold, she makes a new shape, one that fuels her curiosity in wonderful ways and takes her on a magical journey into the world of fractals. This is a beautiful story about the power of imagination, mathematics, and the world around us. It is a chance for readers of all ages to catch a glimpse of the beauty of math and inspire the joy of their own inner mathematician. Fold along with Aiyana and see the magic unfold!

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the Common Core State Standards in Mathematics (CCSSM) and carefully sequences the mathematical progressions into expertly crafted instructional modules. The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location, unpacking the standards in detail so that both users and non-users of Eureka Math can benefit equally from the content presented. Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year, information on alignment to the instructional shifts and the standards, design of curricular components, approaches to differentiated instruction, and descriptions of mathematical models. The Study Guides can serve as either a self-study professional development resource or as the basis for a deep group study of the standards for a particular grade. For teachers who are new to the classroom or the standards, the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful. Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year. The Eureka Math Curriculum Study Guide, Grade 2 provides an overview of all of the Grade 2 modules, including Sums and Differences to 20; Addition and Subtraction of Length Units; Place Value, Counting, and Comparison of Numbers to 1,000; Addition and Subtraction Within 200 with Word Problems to 100; Addition and Subtraction Within 1,000 with Word Problems to 100; Foundations of Multiplication and Division; Problem Solving with Length, Money, and Data; and Time, Shapes, and Fractions as Equal Parts of Shapes.

big math ideas answers: Which One Doesn't Belong? Christopher Danielson, 2019-02-12 Talking math with your child is simple and even entertaining with this better approach to shapes! Written by a celebrated math educator, this innovative inquiry encourages critical thinking and sparks memorable mathematical conversations. Children and their parents answer the same question about each set of four shapes: Which one doesn't belong? There's no one right answer--the important thing is to have a reason why. Kids might describe the shapes as squished, smooshed, dented, or even goofy. But when they justify their thinking, they're talking math! Winner of the Mathical Book Prize for books that inspire children to see math all around them. This is one shape book that will both challenge readers' thinking and encourage them to think outside the box.--Kirkus Reviews, STARRED review

big math ideas answers: *Big Ideas Algebra 2* , 2014-04-07

big math ideas answers: Get it Together Tim Erickson, 1989 'Get It Together' gives math teachers materials to introduce and foster cooperative problem solving in their classrooms. Cooperative learning helps student see that mathematics doesn't have to be learned in isolation. It helps all students succeed in math. 'Get It Together' is a collection of over 100 mathematics problems for groups of 2-6 students in grades 4 and beyond. The problems cover a wide range of subject matter and difficulty. The book also includes advice on management and assessment--Page 4 of cover.

big math ideas answers: **Linear Algebra with Applications (Classic Version)** Otto Bretscher, 2018-03-15 This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. Offering the most geometric presentation available, Linear Algebra with Applications, Fifth Edition emphasizes linear transformations as a unifying theme. This elegant textbook combines a user-friendly presentation with straightforward, lucid language to clarify and organize the techniques and applications of linear algebra. Exercises and examples make up the heart of the text, with abstract exposition kept to a minimum. Exercise sets are broad and varied and reflect the author's creativity and passion for this course. This revision reflects careful review and appropriate edits throughout, while preserving the order of topics of the previous edition.

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business is a job in disguise and feels like a hamster wheel it's time to get smarter. How to have financial security, freedom and fulfilment ... without being so stupidly busy. When people find out you run your own business you know what they'll ask: How's it going? Are you busy? Somehow, busy has come to mean successful. But you didn't wake up this morning thinking my main aim today is to be as busy as possible! You don't have your business to be busy ... so why DO you work so hard? We all have our businesses for the same reason. The same three reasons actually - to have financial security, freedom and fulfilment - the 3Fs. But these aren't the outcomes for most small businesses. Instead, the common experience feels like you're on a hamster wheel, where the hours are long and the rewards mediocre. Self-esteem is threatened and life, love and relationships impacted. This book explains why this happens and how to approach work in a smarter way, to have a better business with less busyness and more certain results, so you can get back to living and loving life again. How, by climbing off the hamster wheel and escaping The Busyness Delusion, you can take the easier, more certain route to turn your own business into one that does give you all 3Fs. It covers: Why the hustle method is seductive but flawed, and how to use a smarter approach Why most self-employed people unwittingly choose the hardest way to earn, and what the easier options are. How to overcome the biggest obstacle to a smarter business and better life. What financial security really means and how to achieve it quicker and more easily. How to get better results by applying a simple model of how the brain works to give you more control. How to eliminate your competition to make it easier to get better results. Providing a new framework, illustrated in clear diagrams and told through a compelling story, this book reveals why copying others creates the hamster wheel effect, and precisely what to do to have a business and life you deserve. This book nails the problem with most small businesses. The solutions are time-tested principles, for the first time pulled together in an original and enjoyable way that's easy to understand and implement. Dan Sager

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big math ideas answers: Primary Problem Solving in Math Jack Coffland, Gilbert Cuevas, 1992 Develop critical thinking and problem-solving skills in young children through these easy-to-use activities that build skills progressively. The first three chapters address non-routine creative problems, real-life situational problems, and algorithmic problems. Chapter 4 provides transitional activities to help kids better understand numbers, mathematical operations, and how these relate to actual experiences. Chapter 5 focuses on information gathering and processing - practicing the reading skills and math vocabulary necessary to identify and organize information in mathematical problems. Grades K-3. Illustrated. Good Year Books. 190 pages.

big math ideas answers: Digging Deeper Ruth Parker, Cathy Humphreys, 2023-10-10 Making the transition to student-centered learning begins with finding ways to get students to share their thinking, something that can be particularly challenging for older learners. Authors Ruth Parker and Cathy Humphreys return with Digging Deeper: Making Number Talks Matter Even More, Grades 3-10, taking the readers into classrooms where their Number Talks routines are taught. In this comprehensive sequel to their best-selling book, Making Number Talks Matter, Parker and Humphreys apply their 15 minute lessons to older grade levels to inspire and initiate math talks. Through vignettes in the book, you'll meet other teachers learning how to listen closely to students and how to prompt them into figuring out solutions to problems. You will learn how to make on-the-spot decisions, continually advancing and deepening the conversation. Digging Deeper includes: Sample Problems: Digging Deeper is filled with a range of Number Talks problems, 10-15 minute warm-up routines that lend themselves to mental math and comparison of strategies Navigating Rough Spots: Learn how to create a safe environment for tricky, problematic, or challenging student discussions that can arise when talking through problems and sharing ideas Responding to Mistakes: Ways to handle misconceptions and mathematical errors that come up

during the course of Number Talk conversations Digging Deeper is filled with teaching tips for using wait time between problems more efficiently, honoring student contributions while still correcting errors, and teaching concepts while nudging independent thinking. Through daily practice and open conversation, you can make Number Talks matter more.

big math ideas answers: Grit Angela Duckworth, 2016-05-03 In this instant New York Times bestseller, Angela Duckworth shows anyone striving to succeed that the secret to outstanding achievement is not talent, but a special blend of passion and persistence she calls “grit.” “Inspiration for non-genius everywhere” (People). The daughter of a scientist who frequently noted her lack of “genius,” Angela Duckworth is now a celebrated researcher and professor. It was her early eye-opening stints in teaching, business consulting, and neuroscience that led to her hypothesis about what really drives success: not genius, but a unique combination of passion and long-term perseverance. In Grit, she takes us into the field to visit cadets struggling through their first days at West Point, teachers working in some of the toughest schools, and young finalists in the National Spelling Bee. She also mines fascinating insights from history and shows what can be gleaned from modern experiments in peak performance. Finally, she shares what she’s learned from interviewing dozens of high achievers—from JP Morgan CEO Jamie Dimon to New Yorker cartoon editor Bob Mankoff to Seattle Seahawks Coach Pete Carroll. “Duckworth’s ideas about the cultivation of tenacity have clearly changed some lives for the better” (The New York Times Book Review). Among Grit’s most valuable insights: any effort you make ultimately counts twice toward your goal; grit can be learned, regardless of IQ or circumstances; when it comes to child-rearing, neither a warm embrace nor high standards will work by themselves; how to trigger lifelong interest; the magic of the Hard Thing Rule; and so much more. Winningly personal, insightful, and even life-changing, Grit is a book about what goes through your head when you fall down, and how that—not talent or luck—makes all the difference. This is “a fascinating tour of the psychological research on success” (The Wall Street Journal).

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