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Mark Zegarelli

Author of Basic Math & Pre-Algebra For Dummies



**1,001 Basic Math
& Pre-Algebra
Practice Problems**
FOR
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by Mark Zegarelli

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Published by
John Wiley & Sons, Inc.
111 River St.
Hoboken, NJ 07030-5774
www.wiley.com

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Published simultaneously in Canada

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Library of Congress Control Number: 2013932103

ISBN 978-1-118-44656-0 (pbk); ISBN 978-1-118-44645-4 (ebk); ISBN 978-1-118-44653-9 (ebk); ISBN 978-1-118-44654-6 (ebk)

Manufactured in the United States of America

10 9 8 7 6 5 4 3 2 1

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Mark Zegarelli is the author of *Basic Math & Pre-Algebra For Dummies*, *Calculus II For Dummies*, and five other books on math, logic, and test preparation. He holds degrees in both English and math from Rutgers University and is a math tutor and teacher.

Mark lives in San Francisco, California, and Long Branch, New Jersey.

Dedication

This is for Suleiman.

Author's Acknowledgments

This is my eighth *For Dummies* book and, as always, the experience of writing it has been productive and fun. Thanks so much to editors Tim Gallan, Christy Pingleton, Lindsay Lefevere, Shira Fass, and Suzanne Langebartels for setting me right as needed.

And thanks to the folks at Borderlands Café on Valencia Street in San Francisco for the friendly, peaceful, and caffeine-accessible environment that virtually any writer (this one, for example) would find conducive to putting actual words on paper.

Publisher's Acknowledgments

We're proud of this book; please send us your comments at <http://dummies.custhelp.com>. For other comments, please contact our Customer Care Department within the U.S. at 877-762-2974, outside the U.S. at 317-572-3993, or fax 317-572-4002.

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Introduction

Are you kidding . . . 1,001 math problems, really?

That's right, a thousand questions plus one to grow on, here in your hot little hands. I've arranged them in order, starting with beginning arithmetic and ending with basic algebra. Topics include everything from the Big Four operations (adding, subtracting, multiplying, and dividing), through negative numbers and fractions, on to geometry and probability, and finally algebra — plus lots more!

Every chapter provides tips for solving the problems in that chapter. And, of course, the back of the book includes detailed explanations of the answers to every question.

It's all here, so get to work!

What You'll Find

This book includes 1,001 basic math and pre-algebra problems, divided into 22 chapters. Each chapter contains problems focusing on a single math topic, such as negative numbers, fractions, or geometry.

Within each chapter, topics are broken into subtopics so that you can work on a specific type of math skill until you feel confident with it. Generally speaking, each section starts with easy problems, moves on to medium ones, and then finishes with hard problems.

You can jump right in anywhere you like and solve these problems in any order. You can also take on one chapter or section at a time, working from easy to medium to hard problems. Or, if you like, you can begin with Question #1 and move right through to Question #1,001.

Additionally, each chapter begins with a list of tips for answering the questions in that chapter.

Every question in Part I is answered in Part II, with a full explanation that walks you through how to understand, set up, and solve the problem.

How This Workbook Is Organized

This workbook includes 1,001 questions in Part I and answers to all of these questions in Part II.

Part I: Questions

Here are the topics covered by the 1,001 questions in this book:

- ✓ **Basic arithmetic:** In Chapters [1](#) through [5](#), you find dozens of basic arithmetic problems. [Chapter 1](#) begins with rounding numbers and then moves on to basic calculating with addition, subtraction, multiplication, and division. Then, in [Chapter 2](#), you tackle negative numbers, and in [Chapter 3](#), you move on to working with powers and square roots. [Chapter 4](#) gives you plenty of practice in solving arithmetic problems using the order of operations. You may remember this using the mnemonic PEMDAS — **P**arentheses, **E**xponents, **M**ultiplication and **D**ivision, **A**ddition and **S**ubtraction.

Finally, in [Chapter 5](#), you put all of this information together to answer arithmetic word problems, from easy to challenging.

- ✓ **Divisibility, factors, and multiples:** Chapters [6](#), [7](#), and [8](#) cover a set of topics related to divisibility. In [Chapter 6](#), you discover a variety of divisibility tricks, which allow you to find out whether a number is divisible by another without actually doing the division. You also work with division with remainders and understand the distinction between prime and composite numbers.

[Chapter 7](#) focuses on factors and multiples. You discover how to generate all the factors and prime factors of a number and calculate the greatest common factor (GCF) for a set of two or more numbers. Additionally, you generate a partial list of the multiples, and calculate the least common multiple (LCM) of two or more numbers.

[Chapter 8](#) wraps up the section with word problems that sharpen and extend your skills working with factors, multiples, remainders, and prime numbers.

- ✓ **Fractions, decimals, percents, and ratios:** Chapters [9](#) through [13](#) focus on four distinct ways to represent parts of a whole — fractions, decimals, percents, and ratios. In [Chapter 9](#), you work with fractions, including increasing the terms of fractions and reducing them to lowest terms. You change improper fractions to mixed numbers, and vice versa. You add, subtract, multiply, and divide fractions, including mixed numbers. You also simplify complex fractions.

In [Chapter 10](#), you convert fractions to decimals, and vice versa. You add, subtract, multiply, and divide decimals. You also find out how to work with repeating decimals. [Chapter 11](#) focuses on percents. You convert fractions and multiples to percents, and vice versa. You discover a few tricks for calculating simple percents. You also work on more difficult percent problems by creating word equations, which can then be translated into equations and solved.

[Chapter 12](#) presents a variety of problems, including word problems, that use ratios and proportions. And in [Chapter 13](#), you tackle even more word problems where you apply your skills working with fractions, decimals, and percents.

- ✓ **Scientific notation, weights and measures, geometry, graphs, statistics and probability, and sets:** In Chapters [14](#) through [19](#), you take a great stride forward working with a wide variety of intermediate basic math skills. In [Chapter 14](#), the topic is scientific notation, which is used to represent very large and very small numbers. [Chapter 15](#) introduces you to weights and measures, focusing on the English and metric systems, and conversions between the two.

[Chapter 16](#) gives you a huge number of geometry problems of every description, including both plane and solid geometry. In [Chapter 17](#), you work with a variety of graphs, including bar graphs, pie charts, line graphs, pictographs, and the xy -graph that is used so much in algebra and later math.

[Chapter 18](#) gives you an introduction to basic statistics, including the mean, median, and mode. It also provides problems in probability and gives you an introduction to counting both independent and dependent events. [Chapter 19](#) gives you some problems in basic set theory, including finding the union, intersection, relative complement, and complement. Additionally, you use Venn diagrams to solve word problems.

- ✓ **Algebraic expressions and equations:** To finish up, Chapters [20](#), [21](#), and [22](#) give you a taste of the work you'll be doing in your first algebra class. [Chapter 20](#) shows you the basics of working

with algebraic expressions, including evaluating, simplifying, and factoring. In [Chapter 21](#), you solve basic algebraic equations. And in [Chapter 22](#), you put these skills to use, solving a set of word problems with basic algebra.

Part II: Answers

In this part, you find answers to all 1,001 questions that appear in Part I. Each answer contains a complete step-by-step explanation of how to solve the problem from beginning to end.

Beyond the Book

This book gives you plenty of math to work on and prepares you for algebra. But maybe you want to track your progress as you tackle the problems, or maybe you're having trouble with certain types of problems and wish they were all presented in one place where you could methodically make your way through them. You're in luck. Your book purchase comes with a free one-year subscription to all 1,001 practice problems online. You get on-the-go access any way you want it — from your computer, smartphone, or tablet. Track your progress and view personalized reports that show where you need to study the most. And then do it. Study what, where, when, and how you want.

What you'll find online

The online practice that comes free with this book offers you the same 1,001 questions and answers that are available here, presented in a multiple-choice format. The beauty of the online problems is that you can customize your online practice to focus on the topic areas that give you the most trouble. So if you need help converting fractions to decimals or have trouble grasping pre-algebra, then select these problem types online and start practicing. Or, if you're short on time but want to get a mixed bag of a limited number of problems, you can specify the quantity of problems you want to practice. Whether you practice a few hundred problems in one sitting or a couple dozen, and whether you focus on a few types of problems or practice every type, the online program keeps track of the questions you get right and wrong so that you can monitor your progress and spend time studying exactly what you need.

You can access this online tool using a PIN code, as described in the next section. Keep in mind that you can create only one login with your PIN. Once the PIN is used, it's no longer valid and is nontransferable. So you can't share your PIN with other users after you've established your login credentials.

How to register

Purchasing this book entitles you to one year of free access to the online, multiple-choice version of all 1,001 of this book's practice problems. All you have to do is register. Just follow these simple steps:

1. Find your PIN code.

- **Print book users:** If you purchased a hard copy of this book, turn to the back of this book to find your PIN.
- **E-book users:** If you purchased this book as an e-book, you can get your PIN by registering your e-book at dummies.com/go/getaccess. Go to this website, find your book and click it,

and then answer the security question to verify your purchase. Then you'll receive an e-mail with your PIN.

2. Go to onlinepractice.dummies.com.

3. Enter your PIN.

4. Follow the instructions to create an account and establish your own login information.

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Your registration is good for one year from the day you activate your PIN. After that time frame has passed, you can renew your registration for a fee. The website gives you all the important details about how to do so.

Where to Go for Additional Help

Every chapter in this book opens with tips for solving the problems in that chapter. And, of course, if you get stuck on any question, you can flip to the answer section and try to work through the solution provided. However, if you feel that you need a bit more basic math information than this book provides, I highly recommend my earlier book *Basic Math & Pre-Algebra For Dummies*. This book gives you a ton of useful information for solving every type of problem included here.

Additionally, you can also check out my *Basic Math & Pre-Algebra Workbook For Dummies*. It contains a nice mix of short explanations for how to do various types of problems, followed by practice. And, for a quick take on the most important basic math concepts, have a look at *Basic Math & Pre-Algebra Essentials For Dummies*. Yep, I wrote that one, too — how's that for shameless plugs?

The Questions

1001

Questions

Questions



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In this part . . .

One thousand and one math problems. That's one problem for every night in the *Arabian Nights* stories. That's almost ten problems for every floor in the Empire State Building. In short, that's a *lot* of problems — plenty of practice to help you attain the math skills you need to do well in your current math class. Here's an overview of the types of questions provided:

- ✓ Basic arithmetic, including absolute value, negative numbers, powers, and square roots (Chapters [1](#) through [5](#))
- ✓ Divisibility, factors, and multiples (Chapters [6](#) through [8](#))
- ✓ Fractions, decimals, percents, and ratios (Chapters [9](#) through [13](#))
- ✓ Scientific notation, measures, geometry, graphs, statistics, probability, and sets (Chapters [14](#) through [19](#))
- ✓ Algebraic expressions and equations (Chapters [20](#) through [22](#))

The Big Four Operations

The Big Four operations (adding, subtracting, multiplying, and dividing) are the basis for all of arithmetic. In this chapter, you get plenty of practice working with these important operations.

The Problems You'll Work On

Here are the types of problems you find in this chapter:

- ✓ Rounding numbers to the nearest ten, hundred, thousand, or million
- ✓ Adding columns of figures, including addition with carrying
- ✓ Subtracting one number from another, including subtraction with borrowing
- ✓ Multiplying one number by another
- ✓ Division, including division with a remainder

What to Watch Out For

Here's a quick tip for rounding numbers to help you in this chapter: When rounding a number, check the number to the right of the place you're rounding to. If that number is from 0 to 4, round down by changing that number to 0. If that number is from 5 to 9, round up by changing that number to 0 and adding 1 to the number to its left.

For example, to round 7,654 to the nearest hundred, check the number to the right of the hundreds place. That number is 5, so change it to 0 and add 1 to the 6 that's to the left of it. Thus, 7,654 becomes 7,700.

Rounding

1–6

1. Round the number 136 to the nearest ten.
2. Round the number 224 to the nearest ten.
3. Round the number 2,492 to the nearest hundred.
4. Round the number 909,090 to the nearest hundred.
5. Round the number 9,099 to the nearest thousand.

6. Round the number 234,567,890 to the nearest million.

Adding, Subtracting, Multiplying, and Dividing

7–30

7. Add $47 + 21 = ?$

8. Add $136 + 53 + 77 = ?$

9. Add $735 + 246 + 1,329 = ?$

10. Add $904 + 1,024 + 6,532 + 883 = ?$

11. Add $56,702 + 821 + 5,332 + 89 + 343,111 = ?$

12. Add $1,609,432 + 657,936 + 82,844 + 2,579 + 459 = ?$

13. Subtract $89 - 54 = ?$

14. Subtract $373 - 52 = ?$

15. Subtract $539 - 367 = ?$

16. Subtract $2,468 - 291 = ?$

17. Subtract $34,825 - 26,492 = ?$

18. Subtract $71,002 - 56,234 = ?$

19. Multiply $458 \times 4 = ?$

20. Multiply $74 \times 35 = ?$

21. Multiply $129 \times 86 = ?$

22. Multiply $382 \times 67 = ?$

23. Multiply $9,876 \times 34 = ?$

24. Multiply $23,834 \times 1,597 = ?$

25. Divide $861 \div 3 = ?$

26. Divide $1,876 \div 7 = ?$

27. Divide $6,184 \div 15 = ?$

28. Divide $25,246 \div 22 = ?$

29. Divide $60,000 \div 53 = ?$

30. Divide $262,145 \div 256 = ?$

Chapter 2

Less than Zero: Working with Negative Numbers

Negative numbers can be a cause of negativity for some students. The rules for working with negative numbers can be a little tricky. In this chapter, you practice applying the Big Four operations to negative numbers. You also strengthen your skills evaluating absolute value.

The Problems You'll Work On

This chapter shows you how to work with the following types of problems:

- ✓ Subtracting a smaller number minus a larger number
- ✓ Adding and subtracting with negative numbers
- ✓ Multiplying and dividing with negative numbers
- ✓ Evaluating absolute value

What to Watch Out For

Here are a few things to keep an eye out for when you're working with negative numbers:

- ✓ To subtract a smaller number minus a larger number, reverse and negate: *Reverse* by subtracting the larger number minus the smaller one, and then *negate* by attaching a minus sign (–) in front of the result. For example, $4 - 7 = -3$.
- ✓ To subtract a negative number minus a positive number, add and negate: *Add* the two numbers as if they were positive, then *negate* by attaching a minus sign in front of the result. For example, $-5 - 4 = -9$.
- ✓ To add a positive number and a negative number (in either order), subtract the larger number minus the smaller number; then attach the same sign to the result as the number that is farther from 0. For example, $-3 + 5 = 2$ and $4 + (-6) = -2$.

Adding and Subtracting Negative Numbers

31–41

31. Evaluate each of the following.

i. $3 - 6 =$

ii. $7 - 12 =$

iii. $14 - 15 =$

iv. $2 - 16 =$

v. $20 - 31 =$

32. Evaluate each of the following.

i. $-7 - 4 =$

ii. $-1 - 9 =$

iii. $-9 - 6 =$

iv. $-11 - 6 =$

v. $-1 - 13 =$

33. Evaluate each of the following.

i. $-5 + 8 =$

ii. $-8 + 5 =$

iii. $-14 + 1 =$

iv. $-1 + 14 =$

v. $-20 + 6 =$

34. Evaluate each of the following.

i. $-2 + (-8) =$

ii. $6 + (-3) =$

iii. $-9 + (-3) =$

iv. $15 + (-5) =$

v. $-19 + (-1) =$

35. Evaluate each of the following.

i. $4 - (-2) =$

ii. $-9 - (-1) =$

iii. $-10 - (-3) =$

iv. $8 - (-11) =$

v. $-3 - (-16) =$

36. $-29 + (-35) =$

37. $46 - (-89) =$

38. $81 + (-137) =$

39. $-212 - 942 =$

40. $1,024 - 2,543 =$

41. $-10,654 - (-289) =$

Multiplying and Dividing Negative Numbers

42–53

42. Evaluate each of the following.

i. $-6 \times 9 =$

ii. $-8 \times (-7) =$

iii. $-9 \times (-7) =$

iv. $7 \times (-8) =$

v. $-9 \times (-6) =$

43. $-15 \times 9 =$

44. $-32 \times (-11) =$

45. $91 \times (-18) =$

46. $-7 \times (-6) \times 5 =$

47. $2 \times (-4) \times (-10) \times (-5) =$

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