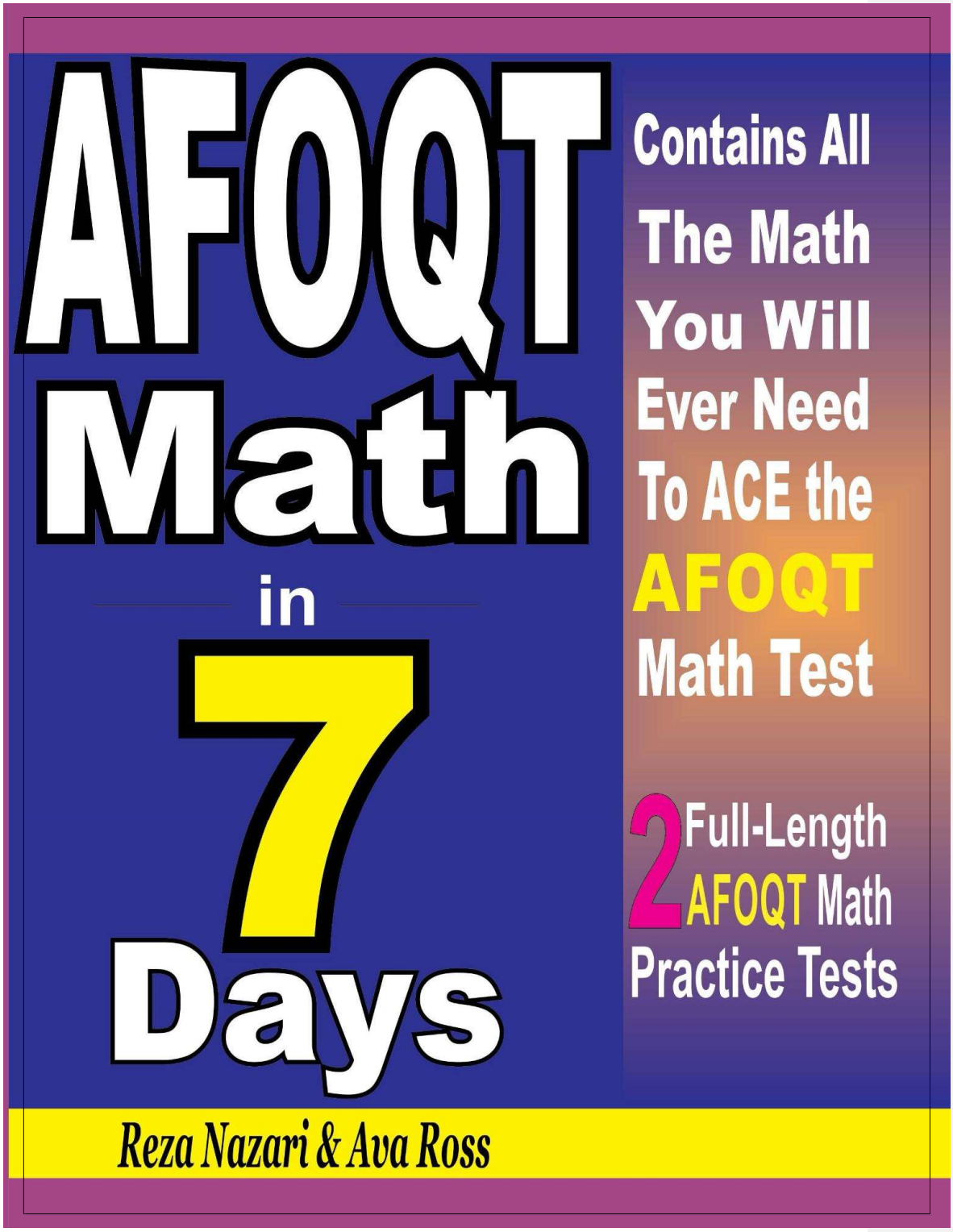

AFOQT
Math
in
7
Days
Contains All
The Math
You Will
Ever Need
To ACE the
AFOQT
Math Test
2 Full-Length
AFOQT Math
Practice Tests
Reza Nazari & Ava Ross

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AFOQT Math in 7 Days

Step–By–Step Guide to Preparing for the AFOQT Math Test Quickly

By

Reza Nazari & Ava Ross

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Description

The goal of this book is simple. It will help you incorporate the best method and the right strategies to prepare for the AFOAT Math FAST and EFFECTIVELY.

AFOAT Math in 7 Days is full of specific and detailed material that will be key to succeeding on the AFOAT Math. It's filled with the critical math concepts a student will need in order to pass the test. Math concepts in this book break down the topics, so the material can be quickly grasped. Examples are worked step–by–step, so you learn exactly what to do.

AFOAT Math in 7 Days helps you to focus on all Math topics that you will need to pass the AFOAT Math test. You only need to spend about 3 – 4 hours daily in your 7-day period in order to pass the test. This book with 2 complete AFOAT tests is all you will ever need to fully prepare for the AFOAT Math.

This workbook includes practice test questions. It contains easy–to–read essential summaries that highlight the key areas of the AFOAT Math test. Effortless Math test study guide reviews the most important components of the AFOAT Math test. Anyone planning to take the AFOAT Math test should take advantage of the review material and practice test questions contained in this study guide.

Whether you are intimidated by math, or even if you were the first to raise your hand in the Math classes, this book can help you accelerate the learning process and put you on the right track.

Inside the pages of this workbook, students can learn basic math operations in a structured manner with a complete study program to help them understand essential math skills. It also has many exciting features, including:

- Dynamic design and easy-to-follow activities
- A fun, interactive and concrete learning process
- Targeted, skill-building practices

- Math topics are grouped by category, so you can focus on the topics you struggle on
- All solutions for the exercises are included, so you will always find the answers
- 2 Complete AFOAT Math Practice Tests that reflect the format and question types on AFOAT

AFOAT Math in 7 Days is a breakthrough in Math learning — offering a winning formula and the most powerful methods for learning basic Math topics confidently. Each section offers step-by-step instruction and helpful hints, with a few topics being tackled each day. Two complete REAL AFOAT Math tests are provided at the back of the book to refine your Math skills.

Effortlessly and confidently follow the step-by-step instructions in this book to prepare for the AFOAT Math in a short period of time.

AFOAT Math in 7 Days **is the only book you'll ever need to master Basic Math topics!** It can be used as a self-study course - you do not need to work with a Math tutor. (It can also be used with a Math tutor).

You'll be surprised how fast you master the Math topics covering on AFOAT Math Test.

Ideal for self-study as well as for classroom usage.



About the Author

Reza Nazari is the author of more than 100 Math learning books including:
– Math and Critical Thinking Challenges: For the Middle and High School Student
– GED Math in 30 Days.
– ASVAB Math Workbook 2018 – 2019
– Effortless Math Education Workbooks
– and many more Mathematics books …

Reza is also an experienced Math instructor and a test–prep expert who has been tutoring students since 2008. Reza is the founder of Effortless Math Education, a tutoring company that has helped many students raise their standardized test scores—and attend the colleges of their dreams. Reza provides an individualized custom learning plan and the personalized attention that makes a difference in how students view math.

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Contents

Day 1: Fundamentals and Building Blocks 10
Place Value 11
Rounding 12
Whole Number Addition and Subtraction 13
Whole Number Multiplication and Division 14
Rounding and Estimates 15
Comparing Numbers 16
Simplifying Fractions 17
Adding and Subtracting Fractions 18
Multiplying and Dividing Fractions 19
Adding Mixed Numbers 20
Subtract Mixed Numbers 21
Multiplying Mixed Numbers 22
Dividing Mixed Numbers 23
Comparing Decimals 24
Rounding Decimals 25
Adding and Subtracting Decimals 26
Multiplying and Dividing Decimals 27
Converting Between Fractions, Decimals and Mixed Numbers 28
Answers of Worksheets – Day 1 29
Day 2: Integers and Order of Operations 35
Divisibility Rules 36
Factoring Numbers 37
Greatest Common Factor 38
Least Common Multiple 39
Adding and Subtracting Integers 40
Multiplying and Dividing Integers 41
Ordering Integers and Numbers 42
Arrange, Order, and Comparing Integers 43
Order of Operations 44
Mixed Integer Computations 45

Integers and Absolute Value 46
Writing Ratios 47
Simplifying Ratios 48
Answers of Worksheets – Day 2 49
Day 3: Proportions and Variables 54
Create a Proportion 55
Similar Figures 56
Simple Interest 57
Ratio and Rates Word Problems 58
Percentage Calculations 59
Converting Between Percent, Fractions, and Decimals 60
Percent Problems 61
Markup, Discount, and Tax 62
Expressions and Variables 63
Simplifying Variable Expressions 64
Simplifying Polynomial Expressions 65
Translate Phrases into an Algebraic Statement 66
Answers of Worksheets – Day 3 67
Day 4: Equations and Inequalities 70
The Distributive Property 71
Evaluating One Variable 72
Evaluating Two Variables 73
Combining like Terms 74
One–Step Equations 75
Two–Step Equations 76
Multi–Step Equations 77
Graphing Single–Variable Inequalities 78
One–Step Inequalities 79
Two–Step Inequalities 80
Multi–Step Inequalities 81
Finding Slope 82
Graphing Lines Using Slope–Intercept Form 83

Graphing Lines Using Standard Form 84
Writing Linear Equations 85
Graphing Linear Inequalities 86
Finding Midpoint 87
Finding Distance of Two Points 88
Answers of Worksheets – Day 4 89
Day 5: Monomials and Polynomials 96
Classifying Polynomials 97
Writing Polynomials in Standard Form 98
Simplifying Polynomials 99
Adding and Subtracting Polynomials 100
Multiplying Monomials 101
Multiplying and Dividing Monomials 102
Multiplying a Polynomial and a Monomial 103
Multiplying Binomials 104
Factoring Trinomials 105
Operations with Polynomials 106
Solve a Quadratic Equation 107
Is (x, y) a solution to the system of equations? 108
Solving Systems of Equations 109
Answers of Worksheets – Day 5 110
Day 6: Exponents, Roots and Statistics 114
Multiplication Property of Exponents 115
Division Property of Exponents 116
Powers of Products and Quotients 117
Zero and Negative Exponents 118
Negative Exponents and Negative Bases 119
Writing Scientific Notation 120
Square Roots 121
Mean, Median, Mode, and Range of the Given Data 122
Bar Graph 123
Box and Whisker Plots 124

Stem–And–Leaf Plot 125
The Pie Graph or Circle Graph 126
Scatter Plots 127
Probability Problems 128
Answers of Worksheets – Day 6 129
Day 7: Geometry 135
The Pythagorean Theorem 136
Area of Triangles 137
Perimeter of Polygons 138
Area and Circumference of Circles 139
Area of Squares, Rectangles, and Parallelograms 140
Area of Trapezoids 141
Volume 142
Volume of Rectangle Prisms 143
Surface Area of Cubes 144
Surface Area of a Rectangle Prism 145
Volume of a Cylinder 146
Surface Area of a Cylinder 147
Answers of Worksheets – Day 7 148
Time to Test 150
AFOQT Arithmetic Reasoning Practice Test 151
AFOQT Mathematics Knowledge Practice Test 157
AFOQT Practice Test Answers 162
A Realistic AFOQT Math Test 163
AFOQT Arithmetic Reasoning Practice Test 164
AFOQT Mathematics Knowledge Practice Test 170
AFOQT Practice Test Answers 175

Day 1: Fundamentals and Building Blocks

Math Topics that you'll learn today:

- ✓ Place Value
- ✓ Rounding
- ✓ Whole Number Addition and Subtraction
- ✓ Whole Number Multiplication and Division
- ✓ Rounding and Estimates
- ✓ Comparing Numbers
- ✓ Simplifying Fractions
- ✓ Adding and Subtracting Fractions
- ✓ Multiplying and Dividing Fractions
- ✓ Adding Mixed Numbers
- ✓ Subtracting Mixed Numbers
- ✓ Multiplying Mixed Numbers
- ✓ Dividing Mixed Numbers
- ✓ Comparing Decimals
- ✓ Rounding Decimals
- ✓ Adding and Subtracting Decimals
- ✓ Multiplying and Dividing Decimals
- ✓ Converting Between Fractions, Decimals and Mixed Numbers

"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is." — John von Neumann

Place Value

Helpful Hints

The value of the place, or position, of a digit in a number.

For the number 3,684.26

Decimal Place Value Chart

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Decimal point	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred thousandths	Millionths
			3	6	8	4	.	2	6				

Example:

In 456, the 5 is in "tens" position.

Write each number in expanded form.

1) Thirty–five 30 + 5

2) Sixty–seven ___ + ___

3) Forty–two ___ + ___

4) Eighty–nine ___ + ___

5) Ninety–one ___ + ___

Circle the correct one.

6) The 2 in 72 is in the ones place tens place hundreds place

7) The 6 in 65 is in the ones place tens place hundreds place

8) The 2 in 342 is in the ones place tens place hundreds place

9) The 5 in 450 is in the ones place tens place hundreds place

10) The 3 in 321 is in the ones place tens place hundreds place

Rounding

Helpful Hints

– Rounding is putting a number up or down to the nearest whole number or the nearest hundred, etc.

Example:

64 rounded to the nearest ten is 60, because 64 is closer to 60 than to 70.

Round each number to the underlined place value.

1) 9̲72
2) 2,9̲95
3) 3̲64
4) 8̲1
5) 5̲5
6) 3̲34
7) 1,2̲03
8) 9.5̲7
9) 7.4̲84
10) 9.1̲4
11) 3̲9
12) 9̲,123
13) 3,45̲2
14) 5̲69
15) 1,2̲30
16) 9̲8
17) 9̲3
18) 3̲7
19) 49̲3
20) 2,9̲23
21) 9̲,845
22) 55̲5
23) 9̲39
24) 6̲9

Whole Number Addition and Subtraction

Helpful Hints		Example:
	1– Line up the numbers.	
	2– Start with the unit place. (ones place)	231 + 120 = 351
	3– Regroup if necessary.	292 – 90 = 202
	4– Add or subtract the tens place.	
	5– Continue with other digits.	

Solve.

1) A school had 891 students last year. If all last year students and 338 new students have registered for this year, how many students will there be in total?

2) Alice has just started her first job after graduating from college. Her yearly income is $33,000 per year. Alice's father income is $56,000 per year and her mother's income is $49,000. What is yearly income of Alice and her parent altogether?

3) Tom had $895 dollars in his saving account. He gave $235 dollars to his sister, Lisa. How much money does he have left?

4) Emily has 830 marbles, Daniel has 970 marbles, and Ethan has 230 marbles less than Daniel. How many marbles do they have in all?

Find the missing number.

5) 890 – ..... = 300

6) 1000 – ..... = 200

7) ..... – 4000 = 92000

8) 60000 – 51000 = ...

9) 3400 – ..... = 3200

10) 33000 – 5000 = ...

Whole Number Multiplication and Division

Helpful Hints

Multiplication:

– Learn the times tables first!

– For multiplication, line up the numbers you are multiplying.

– Start with the ones place.

– Continue with other digits

– A typical division problem:

Dividend ÷ Divisor = Quotient

Division:

– In division, we want to find how many times a number (divisor) is contained in another number (dividend).

– The result in a division problem is the quotient.

Example:

200 × 90 = 18,000

18,000 ÷ 90 = 200

Multiply and divided.

1) 340 ÷ 8 =
2) 1800 ÷ 20 =
3) 50000 ÷ 10 =
4) 966 ÷ 30 =
5) 201 × 20 =
6) 400 × 50 =
7) 400 × 90 =
8) 888 × 90 =
9) 80 × 80 =
10) 122 × 12 =
11) 609 × 8 =
12) 220 × 12 =

13) A group of 235 students has collected $8,565 for charity during last month. They decided to split the money evenly among 5 charities. How much will each charity receive?

14) Maria and her two brothers have 9 boxes of crayons. Each box contains 56 crayons. How many crayons do Maria and her two brothers have?

Rounding and Estimates

Helpful Hints		Example:
	– Rounding and estimating are math strategies used for approximating a number.	
	– To estimate means to make a rough guess or calculation.	73 + 69 ≈ 140
	– To round means to simplify a known number by scaling it slightly up or down.	

Estimate the sum by rounding each added to the nearest ten.

1) 55 + 9
2) 25 + 12
3) 83 + 7
4) 32 + 37
5) 13 + 74
6) 34 + 11
7) 39 + 77
8) 25 + 4
9) 61 + 73
10) 64 + 59
11) 14 + 68
12) 82 + 12
13) 43 + 66
14) 45 + 65
15) 553 + 232
16) 418 + 846
17) 582 + 277
18) 2771 + 1651
19) 7436 + 3575
20) 1542 + 8738
21) 3843 + 6579
22) 4722 + 8186
23) 2419 + 7224
24) 6768 + 3169

Comparing Numbers

Helpful Hints	Comparing:	Example:
	Equal to =	
	Less than <	56 > 35
	Greater than >	
	Greater than or equal ≥	
	Less than or equal ≤	

Use > = <.

1) 35	67	8) 90	56
2) 89	56	9) 94	98
3) 56	35	10) 48	23
4) 27	56	11) 24	54
5) 34	34	12) 89	89
6) 28	45	13) 50	30
7) 89	67	14) 20	20

Use less than, equal to or greater than.

15) 23 _____ 34	22) 56 _____ 43
16) 89 _____ 98	23) 34 _____ 34
17) 45 _____ 25	24) 92 _____ 98
18) 34 _____ 32	25) 38 _____ 46
19) 91 _____ 91	26) 67 _____ 58
20) 57 _____ 55	27) 88 _____ 69
21) 85 _____ 78	28) 23 _____ 34