ACT Aspire Grade 4 Mathematics

A Comprehensive Review and Ultimate Guide to the ACT Aspire Math Test

2 Full-Length ACT Aspire Math Practice Exams

2,500 + Math problems with answers

A comprehensive review of everything on ACT Aspire Math

Reza Nazari & Ava Ross

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A Comprehensive Review and Ultimate Guide to the ACT Aspire Math Test

By

Reza Nazari

& Ava Ross

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Description

The goal of this book is simple. It will help your student incorporates the best method and the right strategies to prepare for the ACT Aspire Mathematics test FAST and EFFECTIVELY.

ACT Aspire Grade 4 Mathematics is full of specific and detailed material that will be key to succeeding on the ACT Aspire Math. It's filled with the critical math concepts a student will need in order to ace 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.

ACT Aspire Math Workbook helps your student to focus on all Math topics that students will need to ace the ACT Aspire Math test. This book with 2 complete ACT Aspire tests is all your student will ever need to fully prepare for the ACT Aspire Math.

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

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 students can focus on the topics they struggle on
- All solutions for the exercises are included, so you will always find the answers
- 2 Complete ACT Aspire Math Practice Tests that reflect the format and question types on ACT Aspire

ACT Aspire Math 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 chapter. Two complete REAL ACT Aspire Math tests are provided at the back of the book to refine your student's Math skills.

ACT Aspire Math **is the only book your student will 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).

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
– ACT 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

Description 2
Chapter 1: Place Vales and Number Sense 10
Place Values 11
Comparing and Ordering Numbers 12
Word Names for Numbers 13
Roman Numerals 14
Rounding Numbers 15
Odd or Even 16
Inequalities with Number Lines 17
Answers of Worksheets – Chapter 1 18
Chapter 2: Adding and Subtracting 21
Adding Two–Digit Numbers 22
Subtracting Two–Digit Numbers 23
Adding Three–Digit Numbers 24
Adding Hundreds 25
Adding 4–Digit Numbers 26
Subtracting 4–Digit Numbers 27
Answers of Worksheets – Chapter 2 28
Chapter 3: Multiplication and Division 29
Multiplication 30
Division 31
Long Division by One Digit 32
Division with Remainders 33
Answers of Worksheets – Chapter 3 34
Chapter 3: Mixed operations 35
Rounding and Estimating 36
Estimate Sums 37
Estimate Differences 38
Estimate Products 39
Answers of Worksheets – Chapter 4 40
Chapter 4: Algebra 42

Variables and Expressions 43
Evaluating Variable 44
Evaluating Two Variables 45
Solve Equations 46
Answers of Worksheets – Chapter 9 47
Chapter 5: Data and Graphs 49
Graph Points on a Coordinate Plane 50
Bar Graph 51
Tally and Pictographs 52
Line Graphs 53
The Pie Graph or Circle Graph 54
Stem–And–Leaf Plot 55
Scatter Plots 56
Answers of Worksheets – Chapter 5 57
Chapter 6: Patterns and Sequences 60
Repeating Pattern 61
Growing Patterns 62
Patterns: Numbers 63
Patterns 64
Answers of Worksheets – Chapter 6 65
Chapter 7: Money 67
Add Money Amounts 68
Subtract Money Amounts 69
Money: Word Problems 70
Answers of Worksheets – Chapter 7 71
Chapter 8: Ratios and rates 72
Simplifying Ratios 73
Writing Ratios 74
Create a Proportion 75
Proportional Ratios 76
Ratio and Rates Word Problems 77
Answers of Worksheets – Chapter 8 78

Chapter 9: Measurement 80
Metric System 81
Length 82
Temperature 83
Liters & Milliliters 84
Kilograms & Grams 85
Answers of Worksheets – Chapter 10 86
Chapter 10: Time 88
Read Clocks 89
Telling Time 90
Digital Clock 91
Measurement – Time 92
Answers of Worksheets – Chapter 10 93
Chapter 11: Geometric 94
Identifying Angles: Acute, Right, Obtuse, and Straight Angles 95
Estimate Angle Measurements 96
Polygon Names 97
Classify Triangles 98
Parallel Sides in Quadrilaterals 99
Identify Rectangles 100
Perimeter: Find the Missing Side Lengths 101
Perimeter and Area of Squares 102
Perimeter and Area of rectangles 103
Find the Area or Missing Side Length of a Rectangle 104
Area and Perimeter: Word Problems 105
Area of Squares and Rectangles 106
Volume of Cubes and Rectangle Prisms 107
Answers of Worksheets – Chapter 11 108
Chapter 12: Three-Dimensional Figures 110
Identify Three–Dimensional Figures 111
Count Vertices, Edges, and Faces 112
Identify Faces of Three–Dimensional Figures 113

Answers of Worksheets – Chapter 12 114
Chapter 13: Symmetry and Transformations 116
Line Segments 117
Identify Lines of Symmetry 118
Count Lines of Symmetry 119
Parallel, Perpendicular and Intersecting Lines 120
Answers of Worksheets – Chapter 13 121
Chapter 14: Fractions and Mixed Numbers 123
Fraction 124
Add Fractions with Like Denominators 125
Subtract Fractions with Like Denominators 126
Add and Subtract Fractions with Like Denominators 127
Compare Sums and Differences of Fractions with Like Denominators 128
Add 3 or More Fractions with Like Denominators 129
Simplifying Fractions 130
Add Fractions with Unlike Denominators 131
Subtract Fractions with Unlike Denominators 132
Add Fractions with Denominators of 10 and 100 133
Add and Subtract Fractions with Denominators of 10, 100, and 1000 134
Answers of Worksheets – Chapter 14 135
Chapter 15: Mixed Numbers 140
Fractions to Mixed Numbers 141
Mixed Numbers to Fractions 142
Add and Subtract Mixed Numbers 143
Answers of Worksheets – Chapter 15 144
Chapter 16: Decimal 146
Decimal Place Value 147
Order and Comparing Decimals 148
Decimal Addition 149
Decimal Subtraction 150
Answers of Worksheets – Chapter 16 151
ACT Aspire Math Practice Tests 153

ACT Aspire Practice Tests Answers and Explanations..... 185

Chapter 1: Place Vales and Number Sense

Topics that you'll learn in this chapter:

- ✓ Place Values
- ✓ Compare Numbers
- ✓ Word Names for Numbers
- ✓ Roman Numerals
- ✓ Rounding
- ✓ Odd or Even
- ✓ Inequalities with Number Lines

Place Values

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 numbers in expanded form.

1) Thirty–five 30 + 5

2) Sixty–seven ___ + ___

3) Forty–two ___ + ___

4) Eighty–nine ___ + ___

5) Ninety–one ___ + ___

Circle the correct choice.

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

Comparing and Ordering Numbers

Helpful Hints	**Comparing:** Equal to = Less than < Greater than >>br>Greater than or equal ≥ Less than or equal ≤	To compare numbers, you can use number line! As you move from left to right on the number line, you find a bigger number!	**Example:** 56 > 35 Order integers from least to greatest. (– 11, – 13, 7, – 2, 12) – 13 <– 11< – 2 < 7 <12

Use less than, equal to or greater than.

1) 23 _____ 34
2) 89 _____ 98
3) 45 _____ 25
4) 34 _____ 32
5) 91 _____ 91
6) 57 _____ 55
7) 85 _____ 78
8) 56 _____ 43
9) 34 _____ 34
10) 92 _____ 98
11) 38 _____ 46
12) 67 _____ 58
13) 88 _____ 69
14) 23 _____ 34

Order each set numbers from least to greatest.

15) – 15, – 19, 20, – 4, 1 ___, ___, ___, ___, ___, ___
16) 6, – 5, 4, – 3, 2 ___, ___, ___, ___, ___, ___
17) 15, – 42, 19, 0, – 22 ___, ___, ___, ___, ___, ___
18) 26, – 91, 0, – 13, 67, – 55 ___, ___, ___, ___, ___, ___
19) – 17, – 71, 90, – 25, – 54, – 39 ___, ___, ___, ___, ___, ___
20) 98, 5, 46, 19, 77, 24 ___, ___, ___, ___, ___, ___

Word Names for Numbers

Helpful Hints

Example:

Write each number in words.

1) 434 _____

2) 809 _____

3) 730 _____

4) 272 _____

5) 266 _____

6) 902 _____

7) 1,418 _____

8) 1,365 _____

9) 3,374 _____

10) 2,486 _____

11) 7,671 _____

12) 6,290 _____

13) 3,147 _____

14) 5,012 _____

Roman Numerals

Helpful Hints

1	I	11	XI	21	XXI
2	II	12	XII	22	XXII
3	III	13	XIII	23	XXIII
4	IV	14	XIV	24	XXIV
5	V	15	XV	25	XXV
6	VI	16	XVI	26	XXVI
7	VII	17	XVII	27	XXVII
8	VIII	18	XVIII	28	XXVIII
9	IX	19	XIX	29	XXIX
10	X	20	XX	30	XXX

Write in Romans numerals.

1) 2 _____

2) 6 _____

3) 4 _____

4) 9 _____

5) 10 _____

6) 7 _____

7) 3 _____

8) 1 _____

9) 5 _____

10) 8 _____

11) Add 7 + 2 and write in Roman numerals. _____

12) Add 6 + 5 and write in Roman numerals. _____

13) Subtract 12 – 6 and write in Roman numerals. _____

14) Subtract 20 – 8 and write in Roman numerals. _____

Rounding Numbers

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) 19$\underline{7}$2
2) 2,$\underline{9}$95
3) 33$\underline{6}$4
4) 12$\underline{8}$1
5) 23$\underline{5}$5
6) 13$\underline{3}$4
7) 1,$\underline{2}$03
8) 14$\underline{5}$7
9) 7$\underline{4}$84
10) 19$\underline{1}$4
11) 42$\underline{3}$9
12) $\underline{9}$,123
13) 3,4$\underline{5}$2
14) 2$\underline{5}$69
15) 1,$\underline{2}$30
16) 7$\underline{6}$98
17) 92$\underline{9}$3
18) 52$\underline{3}$7
19) 24$\underline{9}$3
20) 2,$\underline{9}$23
21) $\underline{9}$,845
22) 45$\underline{5}$5
23) 6$\underline{9}$39
24) 98$\underline{6}$9

Odd or Even

Helpful Hints	**Even:** Any integer that can be divided exactly by 2 is an even number. **Odd:** Any integer that cannot be divided exactly by 2 is an odd number.	**Example:** –3, 1, 7 are all odd numbers – 12, 0, 8 are all even numbers

Identify whether each number is even or odd.

1) 12 _____
2) 7 _____
3) 33 _____
4) 18 _____
5) 99 _____
6) 55 _____
7) 34 _____
8) 87 _____
9) 94 _____
10) 14 _____
11) 22 _____
12) 79 _____

Circle the even number in each group.

13) 22, 11, 57, 13, 19, 47
14) 15, 17, 27, 23, 33, 26
15) 19, 35, 24, 57, 65, 49
16) 67, 58, 89, 63, 27, 63

Circle the odd number in each group.

17) 12, 14, 22, 64, 53, 98
18) 16, 26, 28, 44, 62, 73
19) 46, 82, 63, 98, 64, 56
20) 27, 92, 58, 36, 38, 72

Inequalities with Number Lines

Helpful Hints

– Isolate the variable.

– Find the value of the inequality on the number line.

– For less than or greater than draw open circle on the value of the variable.

– If there is an equal sign too, then use filled circle.

– Draw a line to the right direction.

Draw a graph for each inequality.

1) $-2 > x$



2) $5 \leq -x$



3) $x > 7$



4) $-x > 1.5$

