ACT Aspire Grade 6 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 6 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

Chapter 1: Whole Number Operations 12
Adding Whole Numbers 13
Subtracting Whole Numbers 14
Dividing Whole Numbers 15
Multiplying Whole Numbers 16
Rounding Whole Numbers 17
Whole Number Estimation 18
Answers of Worksheets – Chapter 1 19
Chapter 2: Arithmetic and Number Theory 21
Simplifying Fractions 22
Adding and Subtracting Fractions 23
Multiplying and Dividing Fractions 24
Adding Mixed Numbers 25
Subtract Mixed Numbers 26
Multiplying Mixed Numbers 27
Dividing Mixed Numbers 28
Comparing Decimals 29
Rounding Decimals 30
Adding and Subtracting Decimals 31
Multiplying and Dividing Decimals 32
Converting Between Fractions, Decimals and Mixed Numbers 33
Factoring Numbers 34
Greatest Common Factor 35
Least Common Multiple 36
Divisibility Rules 37
Test Preparation 38
Answers of Worksheets – Chapter 2 43
Chapter 3: Real Numbers and Integers 51
Adding and Subtracting Integers 52
Multiplying and Dividing Integers 53
Ordering Integers and Numbers 54

Arrange, Order, and Comparing Integers 55
Order of Operations 56
Mixed Integer Computations 57
Absolute Value 58
Integers and Absolute Value 59
Classifying Real Numbers Venn Diagram 60
Test Preparation 61
Answers of Worksheets – Chapter 3 62
Chapter 4: Percent 66
Percentage Calculations 67
Converting Between Percent, Fractions, and Decimals 68
Percent Problems 69
Find What Percentage a Number Is of Another 70
Find a Percentage of a Given Number 71
Percent of Increase and Decrease 72
Test Preparation 73
Answers of Worksheets – Chapter 4 78
Chapter 5: Algebraic Expressions 85
Expressions and Variables 86
Simplifying Variable Expressions 87
Translate Phrases into an Algebraic Statement 88
The Distributive Property 89
Evaluating One Variable 90
Evaluating Two Variables 91
Combining like Terms 92
Test Preparation 93
Answers of Worksheets – Chapter 5 94
Chapter 6: Equations 97
One–Step Equations 98
One–Step Equation Word Problems 99
Two–Step Equations 100
Two–Step Equation Word Problems 101

Multi–Step Equations 102
Test Preparation 103
Answers of Worksheets – Chapter 6 107
Chapter 7: Proportions and Ratios 111
Writing Ratios 112
Proportional Ratios 113
Simplifying Ratios 114
Create a Proportion 115
Similar Figures 116
Similar Figure Word Problems 117
Ratio and Rates Word Problems 118
Test Preparation 119
Answers of Worksheets – Chapter 7 121
Chapter 8: Inequalities 125
Graphing Single–Variable Inequalities 126
One–Step Inequalities 127
Two–Step Inequalities 128
Multi–Step Inequalities 129
Test Preparation 130
Answers of Worksheets – Chapter 8 132
Chapter 9: Exponents and Radicals 136
Multiplication Property of Exponents 137
Division Property of Exponents 138
Powers of Products and Quotients 139
Zero and Negative Exponents 140
Negative Exponents and Negative Bases 141
Writing Scientific Notation 142
Square Roots 143
Test Preparation 144
Answers of Worksheets – Chapter 9 146
Chapter 10: Measurements 150
Inches and Centimeters 151

Metric Units 152
Distance Measurement 153
Weight Measurement 154
Test Preparation 155
Answers of Worksheets – Chapter 10 156
Chapter 11: Plane Figures 159
The Pythagorean Theorem 160
Area of Triangles 161
Perimeter of Polygons 162
Area and Circumference of Circles 163
Area of Squares, Rectangles, and Parallelograms 164
Area of Trapezoids 165
Test Preparation 166
Answers of Worksheets – Chapter 11 169
Chapter 12: Solid Figures 172
Volume of Cubes 173
Volume of Rectangle Prisms 174
Surface Area of Cubes 175
Surface Area of a Rectangle Prism 176
Volume of a Cylinder 177
Surface Area of a Cylinder 178
Test Preparation 179
Answers of Worksheets – Chapter 12 181
Chapter 13: Statistics 183
Mean, Median, Mode, and Range of the Given Data 184
First Quartile, Second Quartile and Third Quartile of the Given Data 185
Box and Whisker Plots 186
Bar Graph 187
Stem–And–Leaf Plot 188
The Pie Graph or Circle Graph 189
Scatter Plots 190
Probability of Simple Events 191

Test Preparation..... 192
Answers of Worksheets – Chapter 13..... 197
ACT Aspire Math Practice Tests 206
ACT Aspire Math Practice Tests Answers and Explanations 237

Chapter 1: Whole Number Operations

Topics that you'll learn in this chapter:

- ✓ Adding Whole Numbers
- ✓ Subtracting Whole Numbers
- ✓ Dividing Whole Numbers
- ✓ Multiplying Whole Numbers
- ✓ Rounding Whole Numbers
- ✓ Whole Number Estimation

Adding Whole Numbers

Helpful Hints

1– Line up the numbers.

2– Start with the unit place. (ones place)

3– Regroup if necessary.

4– Add the tens place.

5– Continue with other digits.

Example:

$$\begin{array}{r} 1,349 \\ +2,411 \\ \hline 3,760 \end{array}$$

Add.

1) $\begin{array}{r} 1,158 \\ +\ 6,687 \\ \hline \end{array}$

2) $\begin{array}{r} 5,188 \\ +\ 1,298 \\ \hline \end{array}$

3) $\begin{array}{r} 5,756 \\ +\ 2,712 \\ \hline \end{array}$

4) $\begin{array}{r} 3,239 \\ +2,562 \\ \hline \end{array}$

5) $\begin{array}{r} 4,257 \\ +5,194 \\ \hline \end{array}$

6) $\begin{array}{r} 6,215 \\ +2,189 \\ \hline \end{array}$

Find the missing numbers.

7) 1145 + ___ = 1276

8) 500 + 1000 = ___

9) 3200 + ___ = 4300

10) 455 + ___ = 1755

11) ___ + 720 = 1250

12) ___ + 670 = 2230

13) David sells gems. He finds a diamond in Istanbul and buys it for $3,433. Then, he flies to Cairo and purchases a bigger diamond for the bargain price of $5,922. How much does David spend on the two diamonds? _____

Subtracting Whole Numbers

Helpful Hints

1– Line up the numbers.

2– Start with the units place. (ones place)

3– Regroup if necessary.

4– Subtract the tens place.

5– Continue with other digits.

Example:

$$\begin{array}{r} 5{,}397 \\ -\ 2{,}416 \\ \hline 2{,}981 \end{array}$$

Subtract.

1) $\begin{array}{r} 8{,}519 \\ -\ 5{,}422 \\ \hline \end{array}$

2) $\begin{array}{r} 6{,}222 \\ -\ 4{,}331 \\ \hline \end{array}$

3) $\begin{array}{r} 7{,}821 \\ -\ 3{,}212 \\ \hline \end{array}$

4) $\begin{array}{r} 8{,}756 \\ -\ 6{,}712 \\ \hline \end{array}$

5) $\begin{array}{r} 9{,}290 \\ -\ 3{,}829 \\ \hline \end{array}$

6) $\begin{array}{r} 5{,}117 \\ -4{,}216 \\ \hline \end{array}$

Find the missing number.

7) 2223 – ___ = 1120

8) 3574 – ___ = 2245

9) 1124 – 578 = ___

10) 2300 – ___ = 1250

11) 3780 – 1890 = ___

12) 2880 – 2560 = ___

13) Jackson had $3,963 invested in the stock market until he lost $2,171 on those investments. How much money does he have in the stock market now?

Dividing Whole Numbers

Helpful Hints

– A typical division problem:

Dividend ÷ Divisor = Quotient

Example:

18,000 ÷ 90 = 200

– 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.

Find answers.

1) 500 ÷ 100
2) 4000 ÷ 400
3) 1, 500 ÷ 500
4) 1, 800 ÷ 300
5) 2, 700 ÷ 900
6) 800 ÷ 200
7) 1, 400 ÷ 200
8) 2, 500 ÷ 500
9) 4, 800 ÷ 600
10) 9000 ÷ 200
11) 3, 600 ÷ 600
12) 3, 000 ÷ 500
13) 1000 ÷ 200
14) 4, 500 ÷ 900
15) 1, 200 ÷ 600
16) 6, 000 ÷ 200
17) 9, 000 ÷ 300
18) 2, 800 ÷ 400

Multiplying Whole Numbers

Helpful Hints

– Learn the times tables first!

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

– Start with the ones place.

– Continue with other digits

Example:

200 × 90 = 18,000

Find the answers.

1) $2400 \times 13 =$

2) $1200 \times 10 =$

3) $3120 \times 9 =$

4) $4000 \times 4 =$

5) $2500 \times 5 =$

6) $3200 \times 25 =$

7) $4178 \times 34 =$

8) $9256 \times 26 =$

9) $3191 \times 78 =$

10) $4200 \times 12 =$

11) $6800 \times 10 =$

12) $8000 \times 55 =$

Rounding Whole 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

Whole Number Estimation

Helpful Hints	– To estimate means to make a rough guess or calculation.	**Example:**
	– To round means to simplify a number by scaling it slightly up or down.	73 + 69 ≈ 140

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

1) 582 + 277

2) 2771 + 1651

3) 7436 + 3575

4) 1542 + 8738

5) 3843 + 6579

6) 4722 + 8186

7) 2419 + 7224

8) 6768 + 3169

9) $\begin{array}{r} 4{,}694 \\ +\ 7{,}359 \\ \hline \end{array}$

10) $\begin{array}{r} 9{,}622 \\ +\ 6{,}114 \\ \hline \end{array}$

11) $\begin{array}{r} 1{,}278 \\ +\ 5{,}313 \\ \hline \end{array}$

12) $\begin{array}{r} 8{,}259 \\ +\ 7{,}229 \\ \hline \end{array}$

Answers of Worksheets – Chapter 1

Adding Whole Numbers

1) 7,845
2) 6,486
3) 8,468
4) 5,801
5) 9,451
6) 8,404
7) 131
8) 1500
9) 1,100
10) 1300
11) 530
12) 1,560
13) $9,355

Subtracting Whole Numbers

1) 3,097
2) 1,891
3) 4,609
4) 2,044
5) 5,461
6) 901
7) 1,103
8) 1,329
9) 546
10) 1,050
11) 1,890
12) 320
13) 1,792

Dividing Whole Numbers

1) 5
2) 10
3) 3
4) 6
5) 3
6) 4
7) 7
8) 5
9) 8
10) 45
11) 6
12) 6
13) 5
14) 5
15) 2
16) 30
17) 30
18) 7

Multiplying Whole Numbers

1) 31,200
2) 12,000
3) 28,080
4) 16,000
5) 12,500
6) 80,000
7) 142,052
8) 240,656
9) 248,898
10) 50,400
11) 68,000
12) 440,000