

Student Workbook

and Two Realistic PSSA Math Practice Tests

PARCC Math 5

Exercise Book for Grade

- Content 100% aligned with the 2019 PARCC test
- Written by PARCC Math tutors and test experts
- Complete coverage of all PARCC Math concepts and topics which you will be tested
- Over 2,500 additional PARCC math practice questions
- Abundant Math skill building exercises

2 full-length PARCC Math practice tests with detailed answers

Reza Nazari & Ava Ross

www.EffortlessMath.com

… So Much More Online!

- ✓ FREE Math lessons
- ✓ More Math learning books!
- ✓ Mathematics Worksheets
- ✓ Online Math Tutors

Need a PDF version of this book?

Visit www.EffortlessMath.com

PARCC Math Exercise Book for Grade 5

Student Workbook and Two Realistic PARCC Math Tests

By

Reza Nazari & Ava Ross

Copyright © 2019

Reza Nazari & Ava Ross

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning, or otherwise, except as permitted under Section 107 or 108 of the 1976 United States Copyright Ac, without permission of the author.

All inquiries should be addressed to:

info@EffortlessMath.com

www.EffortlessMath.com

Published by: Effortless Math Education

www.EffortlessMath.com

Description

Get ready for the PARCC Math Test with a PERFECT Math Workbook!

PARCC Math Exercise Book for Grade 5, which reflects the 2019 test guidelines and topics, is dedicated to preparing test takers to ace the PARCC Math Test. This PARCC Math workbook's new edition has been updated to replicate questions appearing on the most recent PARCC Math tests. Here is intensive preparation for the PARCC Math test, and a precious learning tool for test takers who need extra practice in math to raise their PARCC math scores. After completing this workbook, you will have solid foundation and adequate practice that is necessary to ace the PARCC Math test. **This workbook is your ticket to score higher on PARCC Math!**

The updated version of this hands-on workbook represents extensive exercises, math problems, sample PARCC questions, and quizzes with answers and detailed solutions to help you hone your math skills, overcome your exam anxiety, and boost your confidence -- and do your best to defeat PARCC exam on test day.

Each of math exercises is answered in the book and we have provided explanation of the answers for the two full-length PARCC Math practice tests as well which will help test takers find their weak areas and raise their scores. This is a unique and perfect practice book to beat the PARCC Math Test.

Separate math chapters offer a complete review of the PARCC Math test, including:

- ✓ Arithmetic and Number Operations
- ✓ Algebra and Functions,
- ✓ Geometry and Measurement
- ✓ Data analysis, Statistics, & Probability
- ✓ … and also includes **two full-length practice tests!**

The surest way to succeed on PARCC Math Test is with intensive practice in every math topic tested--and that's what you will get in ***PARCC Math Exercise Book***. Each chapter of this focused format has a comprehensive review created by Test Prep experts that goes into detail to cover all of the content likely to appear on the PARCC Math test. Not only does this all-inclusive workbook offer everything you will ever need to conquer PARCC Math test, it also contains two full-length and realistic PARCC Math tests that reflect the format and question types on the PARCC to help you check your exam-readiness and identify where you need more practice.

Effortless Math Workbook *for the PARCC Test* contains many exciting and unique features to help you improve your test scores, including:

- ✓ Content 100% aligned with the 2019 PARCC test
- ✓ Written by PARCC Math tutors and test experts
- ✓ Complete coverage of all PARCC Math concepts and topics which you will be tested
- ✓ Over 2,500 additional PARCC math practice questions in both multiple-choice and grid-in formats with answers grouped by topic, so you can focus on your weak areas
- ✓ Abundant Math skill building exercises to help test-takers approach different question types that might be unfamiliar to them
- ✓ Exercises on different PARCC Math topics such as integers, percent, equations, polynomials, exponents and radicals
- ✓ 2 full-length practice tests (featuring new question types) with detailed answers

This PARCC Math Workbook and other Effortless Math Education books are used by thousands of students each year to help them review core content areas, brush-up in math, discover their strengths and weaknesses, and achieve their best scores on the PARCC test.

Do NOT take the PARCC test without reviewing the Math questions in this workbook!

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.

You can contact Reza via email at:
reza@EffortlessMath.com

Find Reza's professional profile at:
goo.gl/zoC9rJ

Contents

Description 4
Chapter 1: Place Vales and Number Sense 11
Place Values 12
Comparing and Ordering Numbers 13
Write Numbers in Words 14
Rounding Numbers 15
Odd or Even 16
Answers of Worksheets – Chapter 1 17
Chapter 2: Adding and Subtracting 19
Adding Two–Digit Numbers 20
Subtracting Two–Digit Numbers 21
Adding Three–Digit Numbers 22
Adding Hundreds 23
Adding 4–Digit Numbers 24
Subtracting 4–Digit Numbers 25
Answers of Worksheets – Chapter 2 26
Chapter 3: Multiplication and Division 28
Multiplication 29
Division 30
Long Division by One Digit 31
Division with Remainders 32
Answers of Worksheets – Chapter 3 33
Chapter 4: Mixed operations 35
Rounding and Estimating 36
Estimate Sums 37
Estimate Differences 38
Estimate Products 39
Missing Numbers 40
Answers of Worksheets – Chapter 4 41
Chapter 5: Number Theory 43

Factoring Numbers 44
Prime Factorization 45
Greatest Common Factor 46
Least Common Multiple 47
Divisibility Rules 48
Answers of Worksheets – Chapter 5 49
Chapter 6: Data and Graphs 51
Graph Points on a Coordinate Plane 52
Bar Graph 53
Tally and Pictographs 54
Line Graphs 55
Histograms 56
Answers of Worksheets – Chapter 6 57
Chapter 7: Money 60
Add Money Amounts 61
Subtract Money Amounts 62
Money: Word Problems 63
Answers of Worksheets – Chapter 7 65
Chapter 8: Measurement 66
Convert Measurement Units 67
Metric Units 68
Distance Measurement 69
Weight Measurement 70
Answers of Worksheets – Chapter 8 71
Chapter 9: Geometric 73
Identifying Angles: Acute, Right, Obtuse, and Straight Angles 74
Polygon Names 75
Triangles 76
Quadrilaterals and Rectangles 77
Perimeter: Find the Missing Side Lengths 78
Perimeter and Area of Squares 79
Perimeter and Area of rectangles 80

Find the Area or Missing Side Length of a Rectangle 81
Area and Perimeter 82
Volume of Cubes 83
Answers of Worksheets – Chapter 9 84
Chapter 10: Three-Dimensional Figures 86
Identify Three–Dimensional Figures 87
Count Vertices, Edges, and Faces 88
Identify Faces of Three–Dimensional Figures 89
Answers of Worksheets – Chapter 10 90
Chapter 11: Symmetry and Lines 92
Line Segments 93
Identify Lines of Symmetry 94
Count Lines of Symmetry 95
Parallel, Perpendicular and Intersecting Lines 96
Answers of Worksheets – Chapter 11 97
Chapter 12: Fractions 99
Add Fractions with Like Denominators 100
Subtract Fractions with Like Denominators 101
Add and Subtract Fractions with Like Denominators 102
Compare Sums and Differences of Fractions with Like Denominators 103
Add 3 or More Fractions with Like Denominators 104
Simplifying Fractions 105
Add and Subtract Fractions with Unlike Denominators 106
Add Fractions with Denominators of 10 and 100 107
Add and Subtract Fractions with Denominators of 10, 100, and 1000 108
Answers of Worksheets – Chapter 12 109
Chapter 13: Mixed Numbers 113
Fractions to Mixed Numbers 114
Mixed Numbers to Fractions 115
Add and Subtract Mixed Numbers 116
Multiplying and Dividing Mixed Numbers 117
Answers of Worksheets – Chapter 13 118

Chapter 14: Proportions, Ratios, and Percent 120
Simplifying Ratios 121
Proportional Ratios 122
Ratio and Rates Word Problems 122
Answers of Worksheets – Chapter 14 124
Chapter 15: Decimal 126
Decimal Place Value 127
Ordering and Comparing Decimals 128
Adding and Subtracting Decimals 129
Multiplying and Dividing Decimals 130
Answers of Worksheets – Chapter 15 131
PARCC Mathematics Practice Tests 133
PARCC Practice Test 1 134
PARCC Practice Test 2 153
PARCC Practice Tests Answers and Explanations 175

Chapter 1: Place Vales and Number Sense

Topics that you'll practice in this chapter:

- ✓ Place Values
- ✓ Compare Numbers
- ✓ Numbers in Numbers
- ✓ Rounding
- ✓ Odd or Even

Place Values

Write numbers in expanded form.

1) Thirty–five $30 + 5$

2) Sixty–seven ___ + ___

3) Forty–two ___ + ___

4) Eighty–nine ___ + ___

5) Ninety–one ___ + ___

6) Twenty–two ___ + ___

7) Thirty–four ___ + ___

8) Fifty–six ___ + ___

9) Ninety–five ___ + ___

10) Seventy–seven ___ + ___

11) Forty–eight ___ + ___

Circle the correct choice.

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

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

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

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

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

Comparing and Ordering Numbers

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 of integers from least to greatest.

15) $7, -9, -6, -1, 3$ ___, ___, ___, ___, ___, ___
16) $-4, -11, 5, 12, 9$ ___, ___, ___, ___, ___, ___
17) $18, -12, -19, 21, -20$ ___, ___, ___, ___, ___, ___
18) $-15, -25, 18, -7, 32$ ___, ___, ___, ___, ___, ___
19) $37, -42, 28, -11, 34$ ___, ___, ___, ___, ___, ___
20) $78, 46, -19, 77, -24$ ___, ___, ___, ___, ___, ___

Order each set of integers from greatest to least.

21) $11, 16, -9, -12, -4$ ___, ___, ___, ___, ___, ___
22) $23, 31, -14, -20, 39$ ___, ___, ___, ___, ___, ___
23) $45, -21, -18, 55, -5$ ___, ___, ___, ___, ___, ___
24) $68, 81, -14, -10, 94$ ___, ___, ___, ___, ___, ___
25) $-5, 69, -12, -43, 34$ ___, ___, ___, ___, ___, ___
26) $-56, -25, -30, 18, 29$ ___, ___, ___, ___, ___, ___

Write Numbers in Words

Write each number in words.

1) 194 _____

2) 311 _____

3) 256 _____

4) 434 _____

5) 809 _____

6) 730 _____

7) 272 _____

8) 266 _____

9) 902 _____

10) 1,418 _____

11) 1,365 _____

12) 3,374 _____

13) 2,486 _____

14) 7,671 _____

15) 6,290 _____

16) 3,147 _____

17) 5,012 _____

Rounding Numbers

Round each number to the nearest ten.

1) 24
2) 98
3) 41
4) 26
5) 11
6) 35
7) 84
8) 70
9) 47
10) 63
11) 79
12) 55

Round each number to the nearest hundred.

13) 185
14) 254
15) 729
16) 109
17) 222
18) 311
19) 287
20) 927
21) 670
22) 563
23) 890
24) 479

Round each number to the nearest thousand.

25) 1,252
26) 1,950
27) 5,235
28) 3,567
29) 8,027
30) 52,512
31) 31,422
32) 12,723
33) 61,670
34) 71,290
35) 50,930
36) 38,568

Odd or Even

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

Answers of Worksheets – Chapter 1

Place Values

1) $30 + 5$
2) $60 + 7$
3) $40 + 2$
4) $80 + 9$
5) $90 + 1$
6) $20 + 2$
7) $30 + 4$
8) $50 + 6$
9) $90 + 5$
10) $70 + 7$
11) $40 + 8$
12) ones place
13) tens place
14) ones place
15) tens place
16) hundreds place

Comparing and Ordering Numbers

1) 23 less than 34
2) 89 less than 98
3) 45 greater than 25
4) 34 greater than 32
5) 91 equals to 91
6) 57 greater than 55
7) 85 greater than 78
8) 56 greater than 43
9) 34 equals to 34
10) 92 less than 98
11) 38 less than 46
12) 67 greater than 58
13) 88 greater than 69
14) 23 less than 34
15) $-9, -6, -1, 3, 7$
16) $-11, -4, 5, 9, 12$
17) $-20, -19, -12, 18, 21$
18) $-25, -15, -7, 18, 32$
19) $-42, -11, 28, 34, 37$
20) $-24, -19, 46, 77, 78$
21) $16, 11, -4, -9, -12$
22) $39, 31, 23, -14, -20$
23) $55, 45, -5, -18, -21$
24) $94, 81, 68, -10, -14$
25) $69, 34, -5, -12, -43$
26) $29, 18, -25, -30, -56$

Write Numbers in Words

1) One hundred ninety-four
2) Three hundred eleven
3) Two hundred fifty-six
4) Four hundred thirty-four
5) Eight hundred nine
6) Seven hundred thirty

7) Two hundred seventy-two
8) Two hundred sixty-six
9) Nine hundred two
10) One thousand, four hundred eighteen
11) One thousand, three hundred sixty-five
12) Three thousand, three hundred seventy-four
13) Two thousand, four hundred eighty-six
14) Seven thousand, six hundred seventy-one
15) Six thousand, two hundred ninety
16) Three thousand, one hundred forty-seven
17) Five thousand, twelve

Rounding Numbers

1) 20
2) 100
3) 40
4) 30
5) 10
6) 40
7) 80
8) 70
9) 50
10) 60
11) 80
12) 60
13) 200
14) 300
15) 700
16) 100
17) 200
18) 300
19) 300
20) 900
21) 700
22) 600
23) 900
24) 500
25) 1,000
26) 2,000
27) 5,000
28) 4,000
29) 8,000
30) 53,000
31) 31,000
32) 13,000
33) 62,000
34) 71,000
35) 51,000
36) 39,000

Odd or Even

1) Even
2) Odd
3) Odd
4) Even
5) Odd
6) Odd
7) Even
8) Odd
9) Even
10) Even
11) Even
12) Odd
13) 22
14) 26
15) 24
16) 58
17) 53
18) 73
19) 63
20) 27

Chapter 2: Adding and Subtracting

Topics that you'll practice in this chapter:

- ✓ Adding Two–Digit Numbers
- ✓ Subtracting Two–Digit Numbers
- ✓ Adding Three–Digit Numbers
- ✓ Adding Hundreds
- ✓ Adding 4–Digit Numbers
- ✓ Subtracting 4–Digit Numbers