6th Grade Math Workbook 2018

2 Complete PSSA Math Practice Tests

PSSA

The Only Book
Your student will Ever Need
to ACE the PSSA Math Exam!

Reza Nazari & Ava Ross

Let's Keep in Touch

Follow Us Online

Visit US at

www.EffortlessMath.com

https://www.facebook.com/Effortlessmath

https://goo.gl/2B6qWW

Online Math Lessons

It's easy! Here's how it works.

1- Request a FREE introductory session.

2- Meet a Math tutor online.

3- Start Learning Math in Minutes.

Send Email to: info@EffortlessMath.com

www.EffortlessMath.com

… So Much More Online!

- **FREE Math lessons**
- **More Math learning books!**
- **Online Math Tutors**

Looking for an Online Math Tutor?

Send Email to: info@EffortlessMath.com

6th Grade PSSA Math Workbook 2018

The Most Comprehensive Review for the Math Section of the PSSA TEST

By

Reza Nazari

& Ava Ross

Copyright © 2018

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

ISBN-13: 978-1985700123

ISBN-10: 1985700123

Published by: Effortless Math Education

www.EffortlessMath.com

Description

Effortless Math PSSA Workbook provides students with the confidence and math skills they need to succeed on the PSSA Math, providing a solid foundation of basic Math topics with abundant exercises for each topic. It is designed to address the needs of PSSA test takers who must have a working knowledge of basic Math.

This comprehensive workbook with over 2,500 sample questions and 2 complete 6th Grade PSSA tests is all your student needs to fully prepare for the PSSA Math. It will help your student learns everything they need to ace the math section of the PSSA.

There are more than 2,500 Math problems with answers in this book.
Effortless Math unique study program provides your student with an in-depth focus on the math portion of the exam, helping them master the math skills that students find the most troublesome.
This workbook contains most common sample questions that are most likely to appear in the mathematics section of the PSSA.

Inside the pages of this comprehensive 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
- Fun exercises that build confidence
- Math topics are grouped by category, so the 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 PSSA Math Practice Tests that reflect the format and question types on PSSA

Effortless Math PSSA Workbook is an incredibly useful tool for those who want to review all topics being covered on the PSSA test. It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice, helping students to quickly master basic Math skills.



About the Author

Reza Nazari is the author of more than 100 Math learning books including:

- Math for Super Smart Students: Fifth Graders and Older by Reza Nazari

- Math and Critical Thinking Challenges: For the Middle and High School Student

- Effortless Math Education Workbooks

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.

To ask questions about Math, you can contact Reza via email at:
reza@EffortlessMath.com

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

Contents

Chapter 1: Whole Number Operations 11
1–1 Adding Whole Numbers 12
1–2 Subtracting Whole Numbers 13
1–3 Dividing Whole Numbers 14
1–4 Multiplying Whole Numbers 15
1–5 Rounding Whole Numbers 16
1–6 Whole Number Estimation 17
Answers of Worksheets – Chapter 1 18
Chapter 2: Arithmetic and Number Theory 20
2–1 Simplifying Fractions 21
2–2 Adding and Subtracting Fractions 22
2–3 Multiplying and Dividing Fractions 23
2–4 Adding and Subtracting Mixed Numbers 24
2–5 Multiplying and Dividing Mixed Numbers 25
2–6 Adding and Subtracting Decimals 26
2–7 Multiplying and Dividing Decimals 27
2–8 Converting Between Fractions, Decimals and Mixed Numbers 28
2–9 Rounding Numbers 29
2–10 Factoring Numbers 30
2–11 Prime Factorization 31
2–12 Greatest Common Factor 32
2–13 Least Common Multiple 33
2–14 Divisibility Rules 34
Answers of Worksheets – Chapter 2 35
Chapter 3: Real Numbers and Integers 41
3–1 Adding and Subtracting Integers 42

3–2 Multiplying and Dividing Integers 43
3–3 Ordering Integers and Numbers 44
3–4 Arrange, Order, and Comparing Integers 45
3–5 Order of Operations 46
3–6 Mixed Integer Computations 47
3–7 Absolute Value 48
3–8 Integers and Absolute Value 49
3–9 Classifying Real Numbers Venn Diagram 50
Answers of Worksheets – Chapter 3 51
Chapter 4: Percent 54
4–1 Converting Between Percent, Fractions, and Decimals 55
4–2 Table of Common Percent 56
4–3 Percentage Calculations 57
4–4 Find What Percentage a Number Is of Another 58
4–5 Find a Percentage of a Given Number 59
4–6 Percent Problems 60
4–7 Percent of Increase and Decrease 61
Answers of Worksheets – Chapter 4 62
Chapter 5: Algebraic Expressions 65
5–1 Expressions and Variables 66
5–2 Simplifying Variable Expressions 67
5–3 The Distributive Property 68
5–4 Translate Phrases into an Algebraic Statement 69
5–5 Evaluating One Variable 70
5–6 Evaluating Two Variables 71
5–7 Combining like Terms 72
5–8 Simplifying Polynomial Expressions 73
Answers of Worksheets – Chapter 5 74

Chapter 6: Equations 77
6–1 One–Step Equations 78
6–2 One–Step Equation Word Problems 79
6–3 Two–Step Equations 80
6–4 Two–Step Equation Word Problems 81
6–5 Multi–Step Equations 82
Answers of Worksheets – Chapter 6 83
Chapter 7: Proportions and Ratios 85
7–1 Writing Ratios 86
7–2 Simplifying Ratios 87
7–3 Proportional Ratios 88
7–4 Create a Proportion 89
7–5 Similar Figures 90
7–6 Similar Figure Word Problems 91
7–7 Complete the Ratio Table 92
7–8 Ratio and Rates Word Problems 93
Answers of Worksheets – Chapter 7 94
Chapter 8: Inequalities 97
8–1 Graphing Single – Variable Inequalities 98
8–2 One–Step Inequalities 99
8–3 Two–Step Inequalities 100
8–4 Multi–Step Inequalities 101
Answers of Worksheets – Chapter 8 102
Chapter 9: Exponents and Radicals 105
9–1 Multiplication Property of Exponents 106
9–2 Division Property of Exponents 107
9–3 Powers of Products and Quotients 108
9–4 Zero and Negative Exponents 109

9–5 Negative Exponents and Negative Bases 110
9–6 Writing Scientific Notation 111
9–7 Square Roots 112
Answers of Worksheets – Chapter 9 113
Chapter 10: Measurements 116
10 –1 Measurements 117
10 –2 Inch & cm 118
10 –3 Metric units 119
10 –4 Miles 120
10 –5 Weighs 121
Answers of Worksheets – Chapter 10 122
Chapter 11: Plane Figures 124
11 –1 Transformations: Translations, Rotations, and Reflections 125
11–2 The Pythagorean Theorem 126
11 –3 Classifying Triangles and Quadrilaterals 127
11 –4 Area of Triangles 128
11 –5 Perimeter of Polygons 129
11 –6 Area and Circumference of Circles 130
11 –7 Area of Squares, Rectangles, and Parallelograms 131
11 –8 Area of Trapezoids 132
Answers of Worksheets – Chapter 11 133
Chapter 12: Solid Figures 136
12 –1 Classifying Solids 137
12 –2 Volume of Cubes and Rectangle Prisms 138
12 –3 Surface Area of Cubes 139
12 –4 Surface Area of a Prism 140
Answers of Worksheets – Chapter 12 141
Chapter 13: Statistics 142

13 –1 Mean, Median, Mode, and Range of the Given Data 143
13 –2 First Quartile, Second Quartile and Third Quartile of the Given Data 144
13 –3 Bar Graph 145
13 –4 Box and Whisker Plots 146
13 –5 Stem–And–Leaf Plot 147
13 –6 The Pie Graph or Circle Graph 148
13 –7 Scatter Plots 149
Answers of Worksheets – Chapter 13 150
All Mathematics Formulas a 6^{th} grade student Must Know! 155
Mathematics Formula Sheet 156
PSSA Practice Test 1 170
PSSA Practice Test 2 183
PSSA Practice Tests Answer keys 194

Chapter 1: Whole Number Operations

1–1 Adding Whole Numbers

1–2 Subtracting Whole Numbers

1–3 Dividing Whole Numbers

1–4 Multiplying Whole Numbers

1–5 Rounding whole numbers

1–6 Whole number estimation

1–1 Adding Whole Numbers

Add.

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

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

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

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

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

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?

1–2 Subtracting Whole Numbers

Subtract.

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

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

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

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

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

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?

1–3 Dividing Whole Numbers

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

1–4 Multiplying Whole Numbers

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) $8000 \times 55 =$

1–5 Rounding Whole Numbers

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