

Student Workbook

and Two Realistic TSI Math Tests

TSI Math

Exercise Book 2019

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

2 full-length TSI Math practice tests with detailed answers

Reza Nazari & Ava Ross

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TSI Math Exercise Book

Student Workbook and Two Realistic

TSI Math Tests

By

Reza Nazari & Ava Ross

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Reza Nazari & Ava Ross

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Description

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

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

The updated version of this hands-on workbook represents extensive exercises, math problems, sample TSI 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 TSI 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 TSI 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 TSI Math Test.

Separate math chapters offer a complete review of the TSI 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 TSI Math Test is with intensive practice in every math topic tested--and that's what you will get in ***TSI 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 TSI Math test. Not only does this all-inclusive workbook offer everything you will ever need to conquer TSI Math test, it also contains two full-length and realistic TSI Math tests that reflect the format and question types on the TSI to help you check your exam-readiness and identify where you need more practice.

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

- ✓ Content 100% aligned with the 2019 TSI test
- ✓ Written by TSI Math tutors and test experts
- ✓ Complete coverage of all TSI Math concepts and topics which you will be tested
- ✓ Over 2,500 additional TSI 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 TSI Math topics such as integers, percent, equations, polynomials, exponents and radicals
- ✓ 2 full-length practice tests (featuring new question types) with detailed answers

This TSI 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 TSI test.

Do NOT take the TSI 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
– TSI 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: Fundamental and Building Blocks 10
Simplifying Fractions 11
Adding and Subtracting Fractions 12
Multiplying and Dividing Fractions 13
Adding and Subtracting Mixed Numbers 14
Multiplying and Dividing Mixed Numbers 15
Adding and Subtracting Decimals 16
Multiplying and Dividing Decimals 17
Comparing Decimals 18
Rounding Decimals 19
Factoring Numbers 20
Greatest Common Factor 21
Least Common Multiple 22
Answers of Worksheets – Chapter 1 23
Chapter 2: Real Numbers and Integers 27
Adding and Subtracting Integers 28
Multiplying and Dividing Integers 29
Order of Operations 30
Ordering Integers and Numbers 31
Integers and Absolute Value 32
Answers of Worksheets – Chapter 2 33
Chapter 3: Proportions, Ratios, and Percent 35
Simplifying Ratios 36
Proportional Ratios 37
Similarity and Ratios 38
Ratio and Rates Word Problems 39
Percentage Calculations 40
Percent Problems 41
Discount, Tax and Tip 42
Percent of Change 43

Simple Interest 44
Answers of Worksheets – Chapter 3 45
Chapter 4: Algebraic Expressions 48
Simplifying Variable Expressions 49
Simplifying Polynomial Expressions 50
Translate Phrases into an Algebraic Statement 51
The Distributive Property 52
Evaluating One Variable Expressions 53
Evaluating Two Variables Expressions 54
Combining like Terms 55
Answers of Worksheets – Chapter 4 56
Chapter 5: Equations and Inequalities 58
One–Step Equations 59
Multi–Step Equations 60
Graphing Single–Variable Inequalities 61
One–Step Inequalities 62
Multi-Step Inequalities 63
Systems of Equations 64
Systems of Equations Word Problems 65
Quadratic Equation 66
Answers of Worksheets – Chapter 5 67
Chapter 6: Linear Functions 70
Finding Slope 71
Graphing Lines Using Line Equation 72
Writing Linear Equations 73
Graphing Linear Inequalities 74
Finding Midpoint 75
Finding Distance of Two Points 76
Answers of Worksheets – Chapter 6 77
Chapter 7: Exponents 80
Multiplication Property of Exponents 81
Zero and Negative Exponents 82

Division Property of Exponents 83
Powers of Products and Quotients 84
Negative Exponents and Negative Bases 85
Scientific Notation 86
Answers of Worksheets – Chapter 7 87
Chapter 8: Polynomials 90
Writing Polynomials in Standard Form 91
Simplifying Polynomials 92
Adding and Subtracting Polynomials 93
Multiplying Monomials 94
Multiplying and Dividing Monomials 95
Multiplying a Polynomial and a Monomial 96
Multiplying Binomials 97
Factoring Trinomials 98
Operations with Polynomials 99
Answers of Worksheets – Chapter 8 100
Chapter 9: Functions Operations 104
Evaluating Function 105
Adding and Subtracting Functions 106
Multiplying and Dividing Functions 107
Composition of Functions 108
Answers of Worksheets – Chapter 9 109
Chapter 10: Quadratic 111
Solving Quadratic Equations 112
Quadratic Formula and the Discriminant 113
Quadratic Inequalities 114
Graphing Quadratic Functions 115
Answers of Worksheets – Chapter 10 116
Chapter 11: Radical Expressions 118
Simplifying Radical Expressions 119
Multiplying Radical Expressions 120
Simplifying Radical Expressions Involving Fractions 121

Adding and Subtracting Radical Expressions 122
Domain and Range of Radical Functions 123
Solving Radical Equations 124
Answers of Worksheets – Chapter 11 125
Chapter 12: Geometry and Solid Figures 129
Angles 130
Pythagorean Relationship 131
Triangles 132
Polygons 133
Trapezoids 134
Circles 135
Cubes 136
Rectangular Prism 137
Cylinder 138
Pyramids and Cone 139
Answers of Worksheets – Chapter 12 140
Chapter 13: Statistics and Probability 142
Mean and Median 143
Mode and Range 144
Pie Graph 145
Probability Problems 146
Factorials 147
Combinations and Permutations 148
Answers of Worksheets – Chapter 13 149
Chapter 14: Complex Numbers 151
Adding and Subtracting Complex Numbers 152
Multiplying and Dividing Complex Numbers 153
Graphing Complex Numbers 154
Rationalizing Imaginary Denominators 155
Answers of Worksheets – Chapter 14 156
Chapter 15: Logarithms 158
Rewriting Logarithms 159

Evaluating Logarithms 160
Properties of Logarithms 161
Natural Logarithms 162
Exponential Equations and Logarithms 163
Solving Logarithmic Equations 164
Answers of Worksheets – Chapter 15 165
Chapter 16: Trigonometric Functions 168
Trig ratios of General Angles 169
Sketch Each Angle in Standard Position 170
Finding Co-terminal Angles and Reference Angles 171
Angles and Angle Measure 172
Evaluating Trigonometric Functions 173
Missing Sides and Angles of a Right Triangle 174
Arc Length and Sector Area 175
Answers of Worksheets – Chapter 16 176
Chapter 17: Sequences and Series 179
Arithmetic Sequences 180
Geometric Sequences 181
Comparing Arithmetic and Geometric Sequences 182
Finite Geometric Series 183
Infinite Geometric Series 184
Answers of Worksheets – Chapter 17 185
TSI Test Review 188
TSI Mathematics Practice Tests 189
TSI Mathematics Practice Test 1 190
TSI Mathematics Practice Test 2 199
TSI Mathematics Practice Tests Answers and Explanations 208

Chapter 1: Fundamental and Building Blocks

Topics that you'll practice in this chapter:

- ✓ Simplifying Fractions
- ✓ Adding and Subtracting Fractions
- ✓ Multiplying and Dividing Fractions
- ✓ Adding and Subtract Mixed Numbers
- ✓ Multiplying and Dividing Mixed Numbers
- ✓ Adding and Subtracting Decimals
- ✓ Multiplying and Dividing Decimals
- ✓ Comparing Decimals
- ✓ Rounding Decimals
- ✓ Factoring Numbers
- ✓ Greatest Common Factor
- ✓ Least Common Multiple

"A Man is like a fraction whose numerator is what he is and whose denominator is what he thinks of himself. The larger the denominator, the smaller the fraction." –Tolstoy

Simplifying Fractions

Simplify each fraction to its lowest terms.

1) $\frac{9}{18} =$

2) $\frac{8}{10} =$

3) $\frac{6}{8} =$

4) $\frac{5}{20} =$

5) $\frac{18}{24} =$

6) $\frac{6}{9} =$

7) $\frac{12}{15} =$

8) $\frac{4}{16} =$

9) $\frac{18}{36} =$

10) $\frac{6}{42} =$

11) $\frac{13}{39} =$

12) $\frac{21}{28} =$

13) $\frac{63}{77} =$

14) $\frac{36}{40} =$

15) $\frac{21}{63} =$

16) $\frac{30}{84} =$

17) $\frac{50}{125} =$

18) $\frac{72}{108} =$

19) $\frac{49}{112} =$

20) $\frac{240}{320} =$

21) $\frac{120}{150} =$

Solve each problem.

22) Which of the following fractions equal to $\frac{4}{5}$? ____

A. $\frac{64}{75}$ B. $\frac{92}{115}$ C. $\frac{60}{85}$ D. $\frac{160}{220}$

23) Which of the following fractions equal to $\frac{3}{7}$? ____

A. $\frac{63}{147}$ B. $\frac{75}{182}$ C. $\frac{54}{140}$ D. $\frac{39}{98}$

24) Which of the following fractions equal to $\frac{2}{9}$? ____

A. $\frac{84}{386}$ B. $\frac{52}{234}$ C. $\frac{96}{450}$ D. $\frac{112}{522}$

Adding and Subtracting Fractions

Find the sum.

1) $\frac{1}{3}+\frac{2}{3}=$

2) $\frac{1}{2}+\frac{1}{3}=$

3) $\frac{2}{5}+\frac{1}{2}=$

4) $\frac{3}{7}+\frac{2}{3}=$

5) $\frac{3}{4}+\frac{2}{5}=$

6) $\frac{3}{5}+\frac{1}{5}=$

7) $\frac{5}{9}+\frac{1}{2}=$

8) $\frac{3}{5}+\frac{3}{8}=$

9) $\frac{5}{9}+\frac{3}{7}=$

10) $\frac{5}{11}+\frac{1}{4}=$

11) $\frac{3}{7}+\frac{1}{6}=$

12) $\frac{3}{14}+\frac{3}{4}=$

Find the difference.

13) $\frac{1}{2}-\frac{1}{3}=$

14) $\frac{4}{5}-\frac{2}{3}=$

15) $\frac{2}{3}-\frac{1}{6}=$

16) $\frac{3}{5}-\frac{1}{2}=$

17) $\frac{8}{9}-\frac{2}{5}=$

18) $\frac{4}{7}-\frac{1}{9}=$

19) $\frac{2}{5}-\frac{1}{4}=$

20) $\frac{5}{8}-\frac{2}{6}=$

21) $\frac{4}{15}-\frac{1}{10}=$

22) $\frac{7}{20}-\frac{1}{5}=$

23) $\frac{3}{18}-\frac{1}{12}=$

24) $\frac{9}{24}-\frac{3}{16}=$

25) $\frac{3}{7}-\frac{2}{5}=$

26) $\frac{5}{9}-\frac{1}{6}=$

27) $\frac{2}{5}-\frac{1}{10}=$

28) $\frac{5}{12}-\frac{2}{9}=$

29) $\frac{2}{13}-\frac{3}{7}=$

30) $\frac{4}{11}-\frac{5}{8}=$

Multiplying and Dividing Fractions

Find the value of each expression in lowest terms.

1) $\frac{1}{2} \times \frac{3}{4} =$

2) $\frac{3}{5} \times \frac{2}{3} =$

3) $\frac{1}{4} \times \frac{2}{5} =$

4) $\frac{1}{6} \times \frac{4}{5} =$

5) $\frac{1}{5} \times \frac{1}{4} =$

6) $\frac{2}{5} \times \frac{1}{2} =$

7) $\frac{7}{9} \times \frac{1}{3} =$

8) $\frac{5}{7} \times \frac{3}{8} =$

9) $\frac{8}{9} \times \frac{6}{7} =$

10) $\frac{5}{6} \times \frac{3}{5} =$

11) $\frac{3}{8} \times \frac{1}{9} =$

12) $\frac{1}{12} \times \frac{3}{7} =$

Find the value of each expression in lowest terms.

13) $\frac{1}{2} \div \frac{1}{4} =$

14) $\frac{1}{3} \div \frac{1}{2} =$

15) $\frac{2}{5} \div \frac{1}{3} =$

16) $\frac{1}{4} \div \frac{2}{3} =$

17) $\frac{1}{5} \div \frac{3}{10} =$

18) $\frac{2}{7} \div \frac{1}{3} =$

19) $\frac{3}{5} \div \frac{5}{9} =$

20) $\frac{2}{23} \div \frac{2}{9} =$

21) $\frac{4}{13} \div \frac{1}{4} =$

22) $\frac{9}{14} \div \frac{3}{7} =$

23) $\frac{8}{15} \div \frac{2}{5} =$

24) $\frac{2}{9} \div \frac{7}{11} =$

25) $\frac{2}{5} \div \frac{3}{4} =$

26) $\frac{4}{11} \div \frac{2}{5} =$

27) $\frac{2}{15} \div \frac{5}{8} =$

28) $\frac{3}{10} \div \frac{2}{5} =$

29) $\frac{4}{5} \div \frac{3}{7} =$

30) $\frac{2}{11} \div \frac{3}{5} =$

Adding and Subtracting Mixed Numbers

Find the sum.

1) $2\frac{1}{2}+1\frac{1}{3}=$

2) $6\frac{1}{2}+3\frac{1}{2}=$

3) $2\frac{3}{8}+3\frac{1}{8}=$

4) $4\frac{1}{2}+1\frac{1}{4}=$

5) $1\frac{3}{7}+1\frac{5}{14}=$

6) $6\frac{5}{12}+3\frac{3}{4}=$

7) $5\frac{1}{2}+8\frac{3}{4}=$

8) $3\frac{7}{8}+3\frac{1}{3}=$

9) $3\frac{3}{9}+7\frac{6}{11}=$

10) $7\frac{5}{12}+4\frac{3}{10}=$

Find the difference.

11) $3\frac{1}{3}-1\frac{1}{3}=$

12) $4\frac{1}{2}-3\frac{1}{2}=$

13) $5\frac{1}{2}-2\frac{1}{4}=$

14) $6\frac{1}{6}-5\frac{1}{3}=$

15) $8\frac{1}{2}-1\frac{1}{10}=$

16) $9\frac{1}{2}-2\frac{1}{4}=$

17) $9\frac{1}{5}-5\frac{1}{6}=$

18) $14\frac{3}{10}-13\frac{1}{3}=$

19) $19\frac{2}{3}-11\frac{5}{8}=$

20) $20\frac{3}{4}-14\frac{2}{3}=$

21) $2\frac{1}{2}-1\frac{1}{5}=$

22) $3\frac{1}{6}-1\frac{1}{10}=$

23) $16\frac{2}{7}-11\frac{2}{3}=$

24) $15\frac{1}{7}-10\frac{1}{8}=$

25) $12\frac{3}{4}-7\frac{1}{3}=$

26) $15\frac{2}{5}-5\frac{2}{3}=$

Multiplying and Dividing Mixed Numbers

Find the product.

1) $4\frac{1}{3} \times 2\frac{1}{5} =$

2) $3\frac{1}{2} \times 3\frac{1}{4} =$

3) $5\frac{2}{5} \times 2\frac{1}{3} =$

4) $2\frac{1}{2} \times 1\frac{2}{9} =$

5) $3\frac{4}{7} \times 2\frac{3}{5} =$

6) $7\frac{2}{3} \times 2\frac{2}{3} =$

7) $9\frac{8}{9} \times 8\frac{3}{4} =$

8) $2\frac{4}{7} \times 5\frac{2}{9} =$

9) $5\frac{2}{5} \times 2\frac{3}{5} =$

10) $3\frac{5}{7} \times 3\frac{5}{6} =$

Find the quotient.

11) $1\frac{2}{3} \div 3\frac{1}{3} =$

12) $2\frac{1}{4} \div 1\frac{1}{2} =$

13) $10\frac{1}{2} \div 1\frac{2}{3} =$

14) $3\frac{1}{6} \div 4\frac{2}{3} =$

15) $4\frac{1}{8} \div 2\frac{1}{2} =$

16) $2\frac{1}{10} \div 2\frac{3}{5} =$

17) $1\frac{4}{11} \div 1\frac{1}{4} =$

18) $9\frac{1}{2} \div 9\frac{2}{3} =$

19) $8\frac{3}{4} \div 2\frac{2}{5} =$

20) $12\frac{1}{2} \div 9\frac{1}{3} =$

21) $2\frac{1}{8} \div 1\frac{1}{2} =$

22) $1\frac{1}{10} \div 1\frac{3}{5} =$

23) $5\frac{2}{5} \div 1\frac{3}{4} =$

24) $5\frac{1}{2} \div 2\frac{2}{3} =$

25) $3\frac{3}{4} \div 1\frac{1}{5} =$

26) $3\frac{1}{2} \div 1\frac{1}{3} =$

Adding and Subtracting Decimals

Add and subtract decimals.

1) $31.13 - 11.45$

2) $35.25 + 24.47$

3) $73.50 + 22.78$

4) $56.67 - 44.39$

5) $71.47 + 16.25$

6) $68.99 - 53.61$

7) $66.24 - 23.11$

8) $39.75 + 12.85$

9) $229.25 - 84.67$

Find the missing number.

10) $___ + 2.5 = 3.9$

11) $1.7 + ___ = 4.98$

12) $5.25 + ___ = 7$

13) $6.55 - ___ = 2.45$

14) $___ - 3.98 = 5.32$

15) $___ - 11.67 = 14.48$

16) $12.35 + ___ = 14.78$

17) $___ - 23.89 = 13.90$

18) $___ + 17.28 = 19.56$

19) $77.90 + ___ = 102.60$

Multiplying and Dividing Decimals

Find the product.

1) $0.5 \times 0.4 =$

2) $2.5 \times 0.2 =$

3) $1.25 \times 0.5 =$

4) $0.75 \times 0.2 =$

5) $1.92 \times 0.8 =$

6) $0.55 \times 0.4 =$

7) $3.24 \times 1.2 =$

8) $12.5 \times 4.2 =$

9) $22.6 \times 8.2 =$

10) $17.2 \times 4.5 =$

11) $25.1 \times 12.5 =$

12) $33.2 \times 2.2 =$

Find the quotient.

13) $1.67 \div 100 =$

14) $52.2 \div 1{,}000 =$

15) $4.2 \div 2 =$

16) $8.6 \div 0.5 =$

17) $12.6 \div 0.2 =$

18) $16.5 \div 5 =$

19) $13.25 \div 100 =$

20) $25.6 \div 0.4 =$

21) $28.24 \div 0.1 =$

22) $34.16 \div 0.25 =$

23) $44.28 \div 0.5 =$

24) $38.78 \div 0.02 =$