

Student Workbook

and Two Realistic STAAR Math Practice Tests

STAAR Math 6

Exercise Book for Grade

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

2 full-length STAAR Math practice tests with detailed answers

Reza Nazari & Ava Ross

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STAAR Math Exercise Book for Grade 6

Student Workbook and Two Realistic STAAR Math Tests

By

Reza Nazari & Ava Ross

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Reza Nazari & Ava Ross

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Description

Get ready for the STAAR® Math Test with a PERFECT Math Workbook!

STAAR Math Exercise Book for Grade 6, which reflects the 2019 test guidelines and topics, is dedicated to preparing test takers to ace the STAAR Math Test. This STAAR Math workbook's new edition has been updated to replicate questions appearing on the most recent STAAR Math tests. Here is intensive preparation for the STAAR Math test, and a precious learning tool for test takers who need extra practice in math to raise their STAAR math scores. After completing this workbook, you will have solid foundation and adequate practice that is necessary to ace the STAAR Math test. **This workbook is your ticket to score higher on STAAR Math.**

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

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

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

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

This STAAR 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 STAAR test.

Do NOT take the STAAR 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
– GED 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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Chapter 1:

Whole Numbers

Topics that you'll practice in this chapter:

- ✓ Rounding
- ✓ Whole Number Addition and Subtraction
- ✓ Whole Number Multiplication and Division
- ✓ Rounding and Estimates

"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is." — John von Neumann

Rounding

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

Whole Number Addition and Subtraction

Find the sum or subtract.

1) $\begin{array}{r} 1{,}264 \\ +\ 856 \\ \hline \end{array}$

2) $\begin{array}{r} 2{,}689 \\ -\ 456 \\ \hline \end{array}$

3) $\begin{array}{r} 1{,}432 \\ -\ 556 \\ \hline \end{array}$

4) $\begin{array}{r} 2{,}820 \\ +\ 464 \\ \hline \end{array}$

5) $\begin{array}{r} 2{,}170 \\ +\ 245 \\ \hline \end{array}$

6) $\begin{array}{r} 3{,}221 \\ +2{,}560 \\ \hline \end{array}$

7) $\begin{array}{r} 3{,}788 \\ +1{,}892 \\ \hline \end{array}$

8) $\begin{array}{r} 4{,}238 \\ +2{,}576 \\ \hline \end{array}$

9) $\begin{array}{r} 3{,}515 \\ -\ 1{,}675 \\ \hline \end{array}$

10) $\begin{array}{r} 5{,}550 \\ -\ 4{,}120 \\ \hline \end{array}$

11) $\begin{array}{r} 3{,}357 \\ +\ 5{,}230 \\ \hline \end{array}$

12) $\begin{array}{r} 4{,}510 \\ -3{,}691 \\ \hline \end{array}$

Find the missing number.

13) $450 + ____ = 1{,}290$

14) $1{,}786 - ____ = 1{,}346$

15) $____ - 2{,}600 = 7{,}500$

16) $5{,}600 - 2{,}780 = ___$

17) $6{,}890 + ____ = 7{,}460$

18) $3{,}322 - 1{,}795 = ____$

Whole Number Multiplication and Division

Calculate each product.

1) $\begin{array}{r} 26 \\ \times\ 12 \\ \hline \\ \end{array}$

2) $\begin{array}{r} 60 \\ \times\ 15 \\ \hline \\ \end{array}$

3) $\begin{array}{r} 50 \\ \times\ 14 \\ \hline \\ \end{array}$

4) $\begin{array}{r} 46 \\ \times\ 20 \\ \hline \\ \end{array}$

5) $\begin{array}{r} 150 \\ \times\ 15 \\ \hline \\ \end{array}$

6) $\begin{array}{r} 120 \\ \times\ 11 \\ \hline \\ \end{array}$

Find the missing quotient.

7) $240 \div 5 =$

8) $280 \div 4 =$

9) $360 \div 6 =$

10) $500 \div 10 =$

11) $400 \div 8 =$

12) $720 \div 8 =$

13) $1500 \div 3 =$

14) $2400 \div 6 =$

15) $1600 \div 20 =$

16) $3200 \div 40 =$

Solve each problem.

17) $240 \div 4 = N,\ N = __$

18) $1250 \div 5 = N,\ N = __$

19) $N \div 6 = 75\ ,\ N = __$

20) $45 \times N = 270,\ N = __$

21) $880 \div N = 220,\ N = __$

22) $N \times 8 = 504,\ N = __$

Rounding and Estimates

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

1) $14 + 68 =$

2) $82 + 12 =$

3) $43 + 66 =$

4) $47 + 65 =$

5) $553 + 232 =$

6) $418 + 846 =$

7) $582 + 277 =$

8) $2771 + 1651 =$

Estimate the product by rounding each number to the nearest ten.

9) $55 \times 62 =$

10) $14 \times 27 =$

11) $34 \times 66 =$

12) $18 \times 12 =$

13) $62 \times 53 =$

14) $41 \times 26 =$

15) $19 \times 33 =$

16) $76 \times 45 =$

Estimate the sum or product by rounding each number to the nearest ten.

17) $\begin{array}{r} 34 \\ \times\ 26 \\ \hline \end{array}$

18) $\begin{array}{r} 53 \\ \times\ 18 \\ \hline \end{array}$

19) $\begin{array}{r} 78 \\ +\ 92 \\ \hline \end{array}$

20) $\begin{array}{r} 55 \\ +94 \\ \hline \end{array}$

21) $\begin{array}{r} 73 \\ \times\ 12 \\ \hline \end{array}$

22) $\begin{array}{r} 81 \\ +\ 53 \\ \hline \end{array}$

Answers of Worksheets – Chapter 1

Rounding

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

Whole Number Addition and Subtraction

1) 2,120
2) 2,233
3) 876
4) 3,284
5) 2,415
6) 5,781
7) 5,680
8) 6,814
9) 1,840
10) 1,430
11) 8,587
12) 819
13) 840
14) 440
15) 10,100
16) 2,820
17) 570
18) 1,527

Whole Number Multiplication and Division

1) 312
2) 900
3) 700
4) 920
5) 2,250
6) 1,320
7) 48
8) 70
9) 60
10) 50
11) 50
12) 90
13) 500
14) 400
15) 60
16) 80
17) 60
18) 250
19) 450
20) 6
21) 4
22) 63

Rounding and Estimates

1) 80
2) 90
3) 110
4) 120
5) 780
6) 1,270
7) 860
8) 4,420
9) 3,600
10) 300
11) 2,100
12) 200
13) 3,000
14) 1,200
15) 600
16) 4,000
17) 900
18) 1,000
19) 170
20) 150
21) 700
22) 130

Chapter 2:

Fractions and Decimals

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

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

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