

Student Workbook

and Two Realistic STAAR Math Practice Tests

STAAR Math 7

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 7

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 7, 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 Math test for grade 7 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:

Fractions and Mixed Numbers

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

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

Answers of Worksheets – Chapter 1

Simplifying Fractions

1) $\frac{1}{2}$
2) $\frac{4}{5}$
3) $\frac{3}{4}$
4) $\frac{1}{4}$
5) $\frac{3}{4}$
6) $\frac{2}{3}$
7) $\frac{4}{5}$
8) $\frac{1}{4}$
9) $\frac{1}{2}$
10) $\frac{1}{7}$
11) $\frac{1}{3}$
12) $\frac{3}{4}$
13) $\frac{9}{11}$
14) $\frac{9}{10}$
15) $\frac{1}{3}$
16) $\frac{5}{14}$
17) $\frac{2}{5}$
18) $\frac{2}{3}$
19) $\frac{7}{16}$
20) $\frac{3}{4}$
21) $\frac{4}{5}$
22) B
23) A
24) B

Adding and Subtracting Fractions

1) $\frac{3}{3} = 1$
2) $\frac{5}{6}$
3) $\frac{9}{10}$
4) $\frac{23}{21}$
5) $\frac{23}{20}$
6) $\frac{4}{5}$
7) $\frac{19}{18}$
8) $\frac{39}{40}$
9) $\frac{62}{63}$
10) $\frac{31}{44}$
11) $\frac{25}{42}$
12) $\frac{27}{28}$
13) $\frac{1}{6}$
14) $\frac{2}{15}$
15) $\frac{1}{2}$
16) $\frac{1}{10}$
17) $\frac{22}{45}$
18) $\frac{29}{63}$
19) $\frac{3}{20}$
20) $\frac{7}{24}$
21) $\frac{1}{6}$
22) $\frac{3}{20}$
23) $\frac{1}{12}$
24) $\frac{3}{16}$
25) $\frac{1}{35}$
26) $\frac{7}{18}$
27) $\frac{3}{10}$
28) $\frac{7}{36}$
29) $-\frac{25}{91}$
30) $-\frac{15}{88}$

Multiplying and Dividing Fractions

1) $\frac{3}{8}$
2) $\frac{2}{5}$
3) $\frac{1}{10}$
4) $\frac{2}{15}$
5) $\frac{1}{20}$
6) $\frac{1}{5}$
7) $\frac{7}{27}$
8) $\frac{15}{56}$
9) $\frac{16}{21}$

10) $\frac{1}{2}$
11) $\frac{1}{24}$
12) $\frac{1}{28}$
13) 2
14) $\frac{2}{3}$
15) $\frac{6}{5}$
16) $\frac{3}{8}$
17) $\frac{2}{3}$
18) $\frac{6}{7}$
19) $\frac{27}{25}$
20) $\frac{9}{23}$
21) $\frac{16}{13}$
22) $\frac{21}{14}$
23) $\frac{4}{3}$
24) $\frac{22}{63}$
25) $\frac{8}{15}$
26) $\frac{10}{11}$
27) $\frac{16}{75}$
28) $\frac{3}{4}$
29) $\frac{28}{15}$
30) $\frac{10}{33}$

Adding and Subtracting Mixed Numbers

1) $3\frac{5}{6}$
2) 10
3) $5\frac{1}{2}$
4) $5\frac{3}{4}$
5) $2\frac{11}{14}$
6) $10\frac{1}{6}$
7) $14\frac{1}{4}$
8) $7\frac{5}{24}$
9) $10\frac{29}{33}$
10) $11\frac{43}{60}$
11) 2
12) 1
13) $3\frac{1}{4}$
14) $\frac{5}{6}$
15) $7\frac{2}{5}$
16) $7\frac{1}{4}$
17) $4\frac{1}{30}$
18) $\frac{29}{30}$
19) $8\frac{1}{24}$
20) $6\frac{1}{12}$
21) $\frac{13}{10}$
22) $2\frac{1}{15}$
23) $4\frac{13}{21}$
24) $5\frac{1}{56}$
25) $5\frac{5}{12}$
26) $9\frac{11}{15}$

Multiplying and Dividing Mixed Numbers

1) $9\frac{8}{15}$
2) $11\frac{3}{8}$
3) $12\frac{3}{5}$
4) $3\frac{1}{18}$
5) $9\frac{2}{7}$
6) $20\frac{4}{9}$
7) $86\frac{19}{36}$
8) $13\frac{3}{7}$
9) $14\frac{1}{25}$
10) $14\frac{5}{21}$
11) $\frac{1}{2}$
12) $1\frac{1}{2}$
13) $6\frac{3}{10}$
14) $\frac{19}{28}$
15) $1\frac{13}{20}$
16) $\frac{21}{26}$
17) $1\frac{1}{11}$
18) $\frac{57}{58}$
19) $3\frac{31}{48}$
20) $1\frac{19}{56}$
21) $1\frac{5}{12}$

22) $\frac{11}{16}$

23) $3\frac{3}{35}$

24) $2\frac{1}{16}$

25) $3\frac{1}{8}$

26) $2\frac{5}{8}$

Chapter 2:

Decimal

Topics that you'll practice in this chapter:

- ✓ Decimal Place Value
- ✓ Ordering and Comparing Decimals
- ✓ Decimal Addition
- ✓ Decimal Subtraction

"It's not that I'm so smart, it's just that I stay with problems longer." -Albert Einstein