

6 Texas STAAR

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Texas STAAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question Grade 4 practice rounds for STAAR, built around wide ranch roads, city lights, and bold math stamina, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Texas Math Explorer!

Six steady rounds on the Lone Star math route

This book gives you six full Grade 4 practice tests for STAAR. Each round uses wide ranch roads, city lights, and bold math stamina to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Texas Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Texas STAAR review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Lone Star math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Six tests, 180 questions, and a full STAAR review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 4–6	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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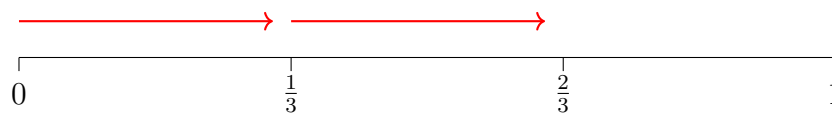


- 1) $\frac{4}{12}$ $\frac{4}{12}$?

A trail is divided into three equal sections. First hikers cover $\frac{4}{12}$ (red) and next hikers cover $\frac{4}{12}$ (gold). How much trail is left?

- A. $\frac{8}{12}$
 C. $\frac{12}{12}$
 B. $\frac{4}{12}$
 D. $\frac{2}{12}$
- 2) Noah wrote three numbers: 2,500, 3,450, and 1,725. In which number is the value of the hundreds digit the greatest?
- A. 2,500
 C. 1,725
 B. 3,450
 D. All three are equal
- 3) There are 144 meters of rope to cut into 12 equal pieces. How many meters long is each piece?

- 4) A number line shows jumps of $\frac{1}{3}$. Which number of jumps gets us to $\frac{2}{3}$?



- A. 1 jump
 C. 3 jumps
 B. 2 jumps
 D. 6 jumps



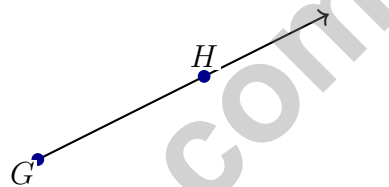
5) Kai is at a lemonade stand. Pitcher A holds 0.75 liters. Pitcher B holds 0.57 liters. Which pitcher holds more lemonade?

- A. Pitcher A (0.75 L) C. Both hold the same amount
 B. Pitcher B (0.57 L) D. Pitcher B holds twice as much

6) Which statement is true?

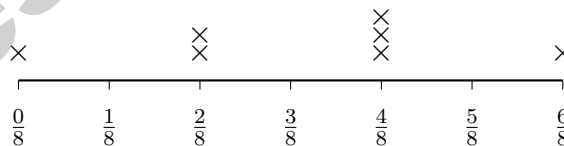
- A. $9 \times \frac{1}{9} = 0$ C. $9 \times \frac{1}{9} = \frac{9}{1}$
 B. $9 \times \frac{1}{9} = 1$ D. $9 \times \frac{1}{9} = 9$

7) Which statement about Ray GH is correct?



- A. The ray ends at point H C. The ray starts at G and continues forever
 B. The ray extends in both directions D. The ray stops between G and H

8) Here is a line plot with measurements in eighths:



What fraction represents the difference between the longest and shortest measurements?

- A. $\frac{2}{8}$ C. $\frac{5}{8}$
 B. $\frac{4}{8}$ D. $\frac{6}{8}$



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- 9) A bookcase shelf is $\frac{3}{10}$ meter wide. What is the width of 4 shelves placed side by side?
- A. $\frac{3}{40}$ meter C. $\frac{4}{10}$ meter
 B. $\frac{12}{10}$ meters (or $1\frac{1}{5}$ meters) D. $\frac{12}{40}$ meter
- 10) $\frac{3}{4}$ is equivalent to $\frac{6}{?}$. What is the missing denominator?
- A. 6 C. 10
 B. 12 D. 8
- 11) Which correctly decomposes $\frac{6}{4}$ as a mixed number?
- A. $1\frac{2}{4}$ C. $2\frac{2}{4}$
 B. $\frac{1}{4} + \frac{5}{4}$ D. $\frac{2}{4} + \frac{2}{4} + \frac{2}{4}$
- 12) A turn of 120° is what fraction of a complete rotation?
- A. $\frac{1}{4}$ C. $\frac{2}{5}$
 B. $\frac{1}{3}$ D. $\frac{1}{2}$
- 13) A soccer team won some games. Another team won 4 times as many games, and that team won 32 games. How many games did the first team win?
- A. 4 C. 28
 B. 36 D. 8
- 14) An angle measures 145 degrees. How many one-degree angles make up this angle?
- A. 72.5 one-degree angles C. 290 one-degree angles
 B. 145 one-degree angles D. 14.5 one-degree angles



- 1) How many 30° angles are needed to make a complete turn around a circle?

- 2) Sam found a mistake in his work. He wrote: $2 \times \frac{3}{5} = \frac{2}{3}$. What is the correct answer?

A. $\frac{2}{3}$
 B. $\frac{5}{6}$

C. $\frac{6}{5}$ or $1\frac{1}{5}$
 D. $\frac{2}{15}$

- 3) Which decimal is equal to $\frac{35}{100}$?

A. 0.035
 B. 0.35

C. 3.5
 D. 35.0

- 4) This fraction bar shows a decomposition. The light part is $\frac{3}{5}$ and the dark part is $\frac{2}{5}$.



The whole fraction is:

A. $\frac{3}{5}$
 B. $\frac{2}{5}$

C. $\frac{5}{5}$
 D. $\frac{6}{5}$

- 5) Which fraction is equivalent to $\frac{4}{8}$?

A. $\frac{1}{4}$
 B. $\frac{5}{8}$

C. $\frac{3}{4}$
 D. $\frac{1}{2}$



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6) Which number line shows $\frac{2}{5} + \frac{3}{5} = 1$?



- A. Starts at $\frac{2}{5}$, hops to $\frac{3}{5}$
 C. Starts at 1, hops backward to $\frac{3}{5}$
 B. Starts at 0, hops to $\frac{2}{5}$, then to 1
 D. Starts at 0, hops to $\frac{5}{5}$

7) What is 9×289 ?

- A. 2501
 C. 2401
 B. 2801
 D. 2601

8) A single muffin uses $\frac{1}{5}$ cup of sugar. How much sugar is needed for 8 muffins?

- A. $\frac{1}{40}$ cup
 C. $\frac{5}{8}$ cup
 B. $\frac{8}{5}$ cups
 D. $\frac{8}{40}$ cup

9) A triangle has three equal sides. What type of triangle is it?

- A. Scalene triangle
 C. Right triangle
 B. Equilateral triangle
 D. Obtuse triangle

10) Chen rode his bike 18 kilometers on Saturday and 25 kilometers on Sunday. What was the total distance?

- A. 7 km
 C. 43 km
 B. 25 km
 D. 450 km



1) A protractor is placed on an angle that opens to the right. One ray aligns with the 0-degree mark on the baseline. The other ray points to where two numbers appear: 65 on the outer scale and 115 on the inner scale. Which is the correct measure?

- A. 65 degrees (use outer scale if angle opens right)
 C. 50 degrees (115 minus 65)
 B. 115 degrees (use inner scale if angle opens left)
 D. Both are correct; protractors have two valid answers

2) Point T is between points R and S . If $RT = 5$ and $TS = 7$, what is RS ?

Cost: × 7

3) Total:

A store buys 7 guitars at \$6 each. How much does the store spend in total?

- A. \$36 C. \$42
 B. \$48 D. \$50

4) Two angles are adjacent and form a larger angle. One angle is 56° and the other is 34° . What is the sum?

- A. 90° C. 100°
 B. 22° D. 56°

5) Which letter has no line of symmetry?

A. *S*

C. *U*

B. *T*

D. *W*

6) A full turn around a point equals 360 degrees. How many one-degree angles make a full turn?

A. 180 one-degree angles

C. 360 one-degree angles

B. 90 one-degree angles

D. 720 one-degree angles

7) A juice bottle holds $\frac{4}{5}$ cup. How much juice do 3 bottles hold?

A. $\frac{4}{15}$ cups

C. $\frac{12}{5}$ cups or $2\frac{2}{5}$ cups

B. $\frac{7}{5}$ cups

D. $\frac{3}{5}$ cups

8) Ms. Kumar has 1,638 pencils to share equally among 7 students. How many pencils does each student receive?

9) What is $8\frac{3}{4} - 5\frac{1}{4}$?

A. $2\frac{2}{4}$

C. $3\frac{2}{4}$

B. $3\frac{1}{4}$

D. $4\frac{1}{4}$



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Practice Test Answer Keys

How to use this section with a Grade 4 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **4.3(A)** A hiking trail is shown with sections covered. Step 1: Add the distances the hikers covered: $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$. Step 2: Find what's left: $\frac{12}{12} - \frac{8}{12} = \frac{4}{12}$.
- 2) **Choice C is correct.** **4.4(E)** Compare the hundreds-place values: 2,500 has $5 \times 100 = 500$; 3,450 has $4 \times 100 = 400$; 1,725 has $7 \times 100 = 700$. The greatest is **1,725** with 700. ✓
- 3) **The correct answer is 12 m.** **4.8(C)** There are 144 meters of rope to cut into 12 pieces. Divide: $144 \div 12 = 12$ meters. Each piece is **12** meters long.
- 4) **Choice B is correct.** **4.3(A)** Each jump moves us forward by $\frac{1}{3}$. To land on $\frac{2}{3}$, we need **2** jumps: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$.
- 5) **Choice A is correct.** **4.3(C)** Compare the tenths place: $7 > 5$, so $0.75 > 0.57$. Pitcher A holds more lemonade.
- 6) **Choice B is correct.** **4.9(B)** When we have 9 copies of $\frac{1}{9}$, we have all 9 of the equal parts, which make one complete whole. So $9 \times \frac{1}{9} = 1$.
- 7) **Choice C is correct.** **4.6(A)** A ray always starts at a specific point — in this case G — and stretches on and on forever in one direction, passing through H along the way.
- 8) **Choice D is correct.** **4.3(E)** The shortest measurement is at $\frac{0}{8}$ and the longest is at $\frac{6}{8}$. The difference is $\frac{6}{8} - \frac{0}{8} = \frac{6}{8}$.
- 9) **Choice B is correct.** **4.9(B)** Four shelves, each $\frac{3}{10}$ meter wide, give us $4 \times \frac{3}{10} = \frac{12}{10}$ meters total width.
- 10) **Choice D is correct.** **4.3(B)** The numerator changes from 3 to 6—that's multiply by 2. To keep fractions equivalent, multiply the denominator by 2 also: $4 \times 2 = 8$.
- 11) **Choice A is correct.** **4.3(A)** One whole is $\frac{4}{4}$, and $\frac{6}{4}$ has 6 fourths total. Subtract: $6 - 4 = 2$, so the mixed number is $1\frac{2}{4}$. ✓
- 12) **Choice B is correct.** **4.7(E)** Divide the degrees by 360: $\frac{120}{360} = \frac{1}{3}$ (simplifying by 120). Answer: $\frac{1}{3}$.
- 13) **Choice D is correct.** **4.5(A)** Working backwards. The other team won 32 games, which is 4 times the first team's wins, so $4 \times ? = 32$. Divide to find the first team: $32 \div 4 = 8$ games.
- 14) **Choice B is correct.** **4.7(E)** An angle that measures 145° is made of **145** one-degree angles.
- 15) **The correct answer is B, C.** **4.3(C)** Option B: $0.6 = \frac{6}{10}$ (six tenths). Option C: $0.6 = 0.60$ (trailing zeros don't matter). The other options use wrong denominators or different values.
- 16) **The correct answer is 8.** **4.2(B)** Counting from the right in 130,800: ones, tens, hundreds. The hundreds digit is 8. ✓
- 17) **Choice B is correct.** **4.3(A)** Add the wholes: $1 + 1 + 1 = 3$. Add the fractions: $\frac{1}{4} + \frac{3}{4} + \frac{2}{4} = \frac{6}{4} = 1\frac{2}{4}$. Combine: $3 + 1\frac{2}{4} = 4\frac{2}{4}$.
- 18) **Choice A is correct.** **4.4(E)** Multiply by parts: $6 \times (60 + 5) = 360 + 30 = \mathbf{390}$ miles per day.
- 19) **Choice D is correct.** **4.5(A)** Watch out for extra information! The prices are not needed—just count items. Step 1: total items: $120 + 80 = 200$. Step 2: divide equally: $200 \div 10 = 20$ items per classroom.
- 20) **Choice C is correct.** **4.4(E)** For both numbers to be factors, both must divide 36 evenly. Check: $36 \div 6 = 6$ ✓ and $36 \div 9 = 4$ ✓. Choice A: 8 doesn't divide 36 ($36 \div 8 = 4r4$); choice B: 7 doesn't divide 36; choice D: 8 doesn't divide 36.
- 21) **Choice B is correct.** **4.3(A)** The jug was $\frac{8}{10}$ full. After pouring, $\frac{3}{10}$ remains. So: $8 - 3 = 5$ tenths poured out, or $\frac{5}{10}$ of the jug.
- 22) **Choice D is correct.** **4.3(B)** All three fractions reduce to $\frac{1}{2}$: Bar 1 has $\frac{3}{6} = \frac{1}{2}$, Bar 2 has $\frac{4}{8} = \frac{1}{2}$, Bar 3 has $\frac{5}{10} = \frac{1}{2}$. Equal size, equal shading!
- 23) **Choice B is correct.** **4.3(C)** Seven tenths equals: $\frac{7}{10} = \frac{70}{100} = 0.70 = 0.7$.
- 24) **Choice A is correct.** **4.9(B)** Diego has 6 stickers, each $\frac{1}{2}$ inch long. Multiply: $6 \times \frac{1}{2} = \frac{6 \times 1}{2} = \frac{6}{2} = 3$ inches. The answer is **3** inches.
- 25) **Choice B is correct.** **4.6(D)** A trapezoid is defined by having exactly one pair of parallel sides. Since parallelograms, rectangles, and rhombuses each have two pairs of parallel sides, they cannot be trapezoids. The answer is **B**.



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Star Player Pep Talk

Hi, Star Player!

◇ 6 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 6 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Coach

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal for classroom use, homework, test preparation, and extra practice at home.

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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SUCCESS FOR LIFE.**

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Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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