

6 Kentucky KSA

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 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question Grade 4 practice rounds for KSA, built around bluegrass hills, derby timing, and thoughtful math choices, with answer keys and clear explanations for every item.

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Welcome, Kentucky Math Explorer!

Six steady rounds on the Bluegrass State math route

This book gives you six full Grade 4 practice tests for KSA. Each round uses bluegrass hills, derby timing, and thoughtful math choices to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Kentucky 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 Kentucky KSA 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 Bluegrass State 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 KSA 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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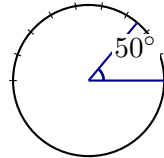
1) Which is a prime number between 30 and 40?

A. 32

C. 37

B. 35

D. 39



2)

Diego's angle measures 50 degrees. How many one-degree angles are in his angle?

A. 25 one-degree angles

C. 100 one-degree angles

B. 50 one-degree angles

D. 5 one-degree angles

3) Emma has 6 books. Her sister has 3 times as many. How many books does her sister have?

A. 9

C. 6

B. 3

D. 18

4) What is $6 \times \frac{1}{8}$?

A. $\frac{1}{48}$

C. $\frac{6}{8}$ or $\frac{3}{4}$

B. $\frac{8}{6}$

D. $\frac{6}{1}$

5) A race is 8,800 yards long. How many miles is this?

A. 2

C. 4

B. 3

D. 5



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6) A baker needs $\frac{7}{12}$ cup of sugar and has $\frac{3}{12}$. How much more is needed?

7) A baker has $3\frac{2}{5}$ pounds of almonds. She uses $2\frac{1}{5}$ pounds in a recipe. How many pounds of almonds are left?

8) What is the remainder when 2,047 is divided by 7?

$$\begin{array}{r} \text{quotient} \\ 292 \\ 7 \overline{) 2047} \\ \underline{-14} \\ 64 \\ \underline{-63} \\ 17 \\ \underline{-14} \\ 3 \text{ remainder} \end{array}$$

A. 2

B. 5

C. 4

D. 3



9) By what number do you multiply both the numerator and denominator of $\frac{1}{6}$ to get $\frac{2}{12}$?

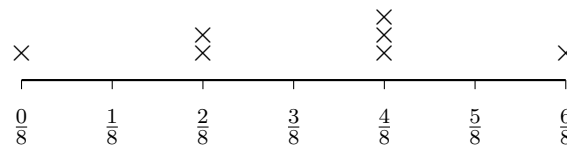
A. 1

C. 3

B. 6

D. 2

10) 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. $\frac{6}{8}$

11) A pattern shows every third multiple of 4. Which list shows this pattern?

A. 4, 8, 12, 16, 20

C. 4, 12, 20, 28, 36

B. 8, 16, 24, 32, 40

D. 12, 24, 36, 48, 60

12) In the number 7,707, the digit 7 in the hundreds place has a value that is how many times the digit 7 in the ones place?

A. 10

C. 1,000

B. 1

D. 100



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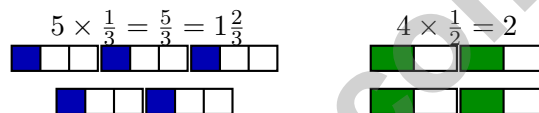
1) Round 11,550 to the nearest hundred.

- A. 11,500 C. 11,550
 B. 11,000 D. 11,600

2) Which letter has a line of symmetry?

- A. *F* C. *A*
 B. *L* D. *G*

3) Compare: Which is larger, $5 \times \frac{1}{3}$ or $4 \times \frac{1}{2}$?



- A. $5 \times \frac{1}{3}$ is larger C. They are equal
 B. $4 \times \frac{1}{2}$ is larger D. Cannot be determined

4) Which statement is true about 0.5 and 0.5?

- A. They are not equal C. One is greater than the other
 B. They are equivalent D. They cannot be compared

5) A craft project needs 27 beads per bracelet. A shop has 350 beads total. How many complete bracelets can they make, and will there be beads left over?

- A. 12 bracelets, 1 bead left C. 13 bracelets, 1 bead left
 B. 13 bracelets, 0 beads left D. 12 bracelets, 26 beads left



6) Noah wants to carpet his bedroom floor. The room is a rectangle that is 14 feet long and 10 feet wide. How many square feet of carpet does he need?

A. 24 sq ft

C. 140 sq ft

B. 48 sq ft

D. 280 sq ft

7) Mia has a string of length $\frac{11}{12}$ yard. She cuts it into two pieces where one piece is $\frac{6}{12}$ yard. Which shows this decomposition?

A. $\frac{6}{12} + \frac{5}{12}$

C. $\frac{5}{12} + \frac{5}{12}$

B. $\frac{4}{12} + \frac{7}{12}$

D. $\frac{8}{12} + \frac{4}{12}$

8) A farmer has 23,456 kg of grain. He uses 5,678 kg. How much grain is left?

A. 17,778 kg

C. 18,778 kg

B. 17,878 kg

D. 17,678 kg

9)



Finn has 4 toy trucks. Owen has 2 times as many toy trucks as Finn. How many toy trucks does Owen have?

A. 6

C. 12

B. 16

D. 8



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1) Which choice shows the correct long division answer for $1,953 \div 3$?

A. 651

C. 641

B. 631

D. 661

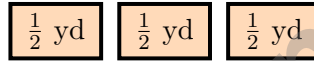
2) Order these from least to greatest: 0.90, 0.09, 0.99, 0.19.

A. 0.09, 0.19, 0.90, 0.99

C. 0.99, 0.90, 0.19, 0.09

B. 0.09, 0.90, 0.19, 0.99

D. 0.19, 0.09, 0.99, 0.90



3) 3 strips, each $\frac{1}{2}$ yard

This shows 3 ribbon strips. Each strip is $\frac{1}{2}$ yard. What is the total length?

A. $\frac{3}{6}$

C. $\frac{1}{2}$

B. $\frac{3}{2}$ yards (or $1\frac{1}{2}$ yards)

D. 3 yards

4) A city library has 287,654 books. How is this number read?

A. Two hundred eighty thousand, seven hundred fifty-four

C. Twenty-eight thousand, seven hundred fifty-four

B. Two hundred thousand, eighty-seven thousand, six hundred fifty-four

D. Two hundred eighty-seven thousand, six hundred fifty-four

5) A rectangle has an area of 63 square feet. The length is 9 feet. What is the width?

A. 6 ft

C. 9 ft

B. 8 ft

D. 7 ft



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6) How many factor pairs does 35 have?

7) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?

A. $\frac{4}{6}$ yard

C. $\frac{1}{24}$ yard

B. 4 yards

D. $\frac{6}{4}$ yard

8) A recipe uses $\frac{3}{4}$ cup of flour and $\frac{2}{3}$ cup of sugar. Which amount is greater?

9) 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

10) What is $2\frac{1}{3} - 1\frac{2}{3}$? (Hint: You may need to regroup.)

A. $\frac{1}{3}$

C. $1\frac{1}{3}$

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

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



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

- Choice C is correct.** (KY.4.NBT.1) Test each: 32 is even (so divisible by 2); $35 = 5 \times 7$; $39 = 3 \times 13$. Only 37 has no factors besides 1 and itself—**prime!**
- Choice B is correct.** (KY.4.MD.5) Diego's angle measures 50° , so it is made of **50** one-degree angles.
- Choice D is correct.** (KY.4.OA.1) "3 times as many" is a multiplication signal. Emma's sister has $6 \times 3 = 18$ books.
- Choice C is correct.** (KY.4.NF.4) We take 6 copies of $\frac{1}{8}$. Multiply: $6 \times \frac{1}{8} = \frac{6 \times 1}{8} = \frac{6}{8} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- Choice D is correct.** (KY.4.MD.1) Since 1 mile = 1,760 yards, divide: $8,800 \div 1,760 = 5$ miles. The answer is **5** miles.
- The correct answer is $\frac{1}{3}$.** (KY.4.NF.3) The baker needs $\frac{7}{12}$ cup and has $\frac{3}{12}$. What's needed: $7 - 3 = 4$ twelfths more, or $\frac{4}{12}$ (which simplifies to $\frac{1}{3}$).
- The correct answer is $1\frac{1}{5}$.** (KY.4.NF.3) The baker used some almonds from her supply. Subtract the amount used: $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$ pounds of almonds remain.
- Choice D is correct.** (KY.4.NBT.6) Use long division: $20 \div 7 = 2$ r6, bring down the 4 to get $64 \div 7 = 9$ r1, bring down the 7 to get $17 \div 7 = 2$ r3. The remainder is **3**.
- Choice D is correct.** (KY.4.NF.1) The denominator goes from 6 to 12—that's multiply by 2. Multiply the numerator by 2 also: $\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{2}{12}$.
- Choice D is correct.** (KY.4.MD.4) The shortest measurement is at $\frac{0}{8}$ and the longest is at $\frac{6}{8}$. The difference is $\frac{6}{8} - \frac{0}{8} = \frac{6}{8}$.
- Choice D is correct.** (KY.4.NBT.1) Every third multiple of 4: the 3rd is 12, the 6th is 24, the 9th is 36. These are 12, 24, 36, 48, 60, ... (multiples of 12). ✓
- Choice D is correct.** (KY.4.NBT.1) In 7,707: the 7 in the hundreds place is worth 700, and the 7 in the ones place is worth 7. The ratio is $700 \div 7 = 100$ times. ✓
- Choice D is correct.** (KY.4.MD.5) Vertex is a part of an angle (where two rays meet), not a type of angle. The types are acute, right, obtuse, and straight.
- Choice C is correct.** (KY.4.NF.1) Same denominator, so compare numerators: $4 < 8$ means $\frac{4}{10} < \frac{8}{10}$.
- Choice B is correct.** (KY.4.NF.5) Multiply both the numerator and denominator by 10: $\frac{5}{10} \times \frac{10}{10} = \frac{50}{100}$.
- Choice B is correct.** (KY.4.NF.4) The fraction $\frac{4}{10}$ is the same as 4 copies of $\frac{1}{10}$. We write this multiplication as $4 \times \frac{1}{10}$.
- Choice B is correct.** (KY.4.MD.6) The vertex is the point where the two rays of an angle meet. This point must be placed at the center point (the small dot or mark) of your protractor so that all measurements are accurate. The answer is the center point.
- The correct answer is A, C.** (KY.4.MD.5) Choice A: $\frac{1}{4} \times 360^\circ = 90^\circ$ ✓. Choice C: A quarter turn is $\frac{1}{4}$ of the circle, also 90° ✓. Choice B: $\frac{1}{3} \times 360^\circ = 120^\circ$. Choice D: 12 to 4 is one-third, or 120° . Choice E: 12 to 6 is a half turn, or 180° .
- Choice A is correct.** (KY.4.NBT.5) Break 234 into hundreds, tens, and ones: $5 \times (200 + 30 + 4) = 1000 + 150 + 20 = 1170$.
- Choice A is correct.** (KY.4.NBT.4) Mia spent money, so we subtract. $25,000 - 12,345 = 12,655$ dollars left.
- Choice C is correct.** (KY.4.NF.3) Two complete bars (that's 2 wholes), then $\frac{3}{4}$ of the third bar. Total: $2\frac{3}{4}$ ✓.
- Choice D is correct.** (KY.4.NBT.6) Two steps! Step 1: cars left after selling: $200 - 50 = 150$. Step 2: pack into boxes of 6: $150 \div 6 = 25$ complete boxes (no remainder).
- The correct answer is $\frac{7}{10}$.** (KY.4.NF.3) Carlos uses 7 pieces out of 10, which is $\frac{7}{10}$. As unit fractions:

$$\underbrace{\frac{1}{10} + \frac{1}{10} + \dots + \frac{1}{10}}_{7 \text{ copies}}$$
- Choice C is correct.** (KY.4.NF.5) First, convert $\frac{3}{10}$ to hundredths: $\frac{3}{10} = \frac{30}{100}$. Now both fractions have the same denominator, so we add: $\frac{30}{100} + \frac{5}{100} = \frac{35}{100}$.



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Notes From Your Math Builder

Hi, Math Builder!

◇ Through 6 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

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.

PERFECT FOR:

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

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

WHAT STUDENTS WILL GAIN



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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Encourages Independent Learning



Prepares Students for Test Day Success