

3

Kentucky

KSA

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

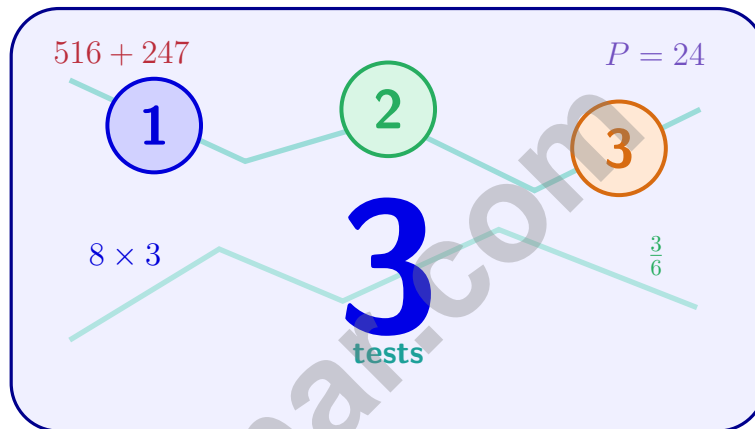
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Kentucky KSA strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Kentucky Math Explorer!

Three steady rounds on the Bluegrass State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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& answers

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9) Find 32×19 .

10) A turn of 210° is equal to what fraction of a full turn?

- A. $\frac{1}{2}$
 B. $\frac{7}{12}$

- C. $\frac{3}{4}$
 D. $\frac{5}{6}$

11) A garden hose is 50 feet long. How many whole yards is this?

- A. 15
 B. 16

- C. 17
 D. 18

12) A room is 15 feet long and 12 feet wide. What is the area of the floor?

- A. 27 sq ft
 B. 54 sq ft

- C. 180 sq ft
 D. 120 sq ft

13) In the number 6,663, the value of the digit 6 in the hundreds place is how many times the value of the digit 6 in the tens place?

- A. 1
 B. 1,000

- C. 100
 D. 10

14) Add: $7,285 + 1,514 = ?$

- A. 8,799
 B. 8,889





- C. 8,699
 D. 9,799



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- 1) Two rays form an angle of 127° . One ray is rotated to create a smaller angle of 39° with the other ray. What is the angle that was swept during the rotation?
- A. 88° C. 39°
 B. 166° D. 90°
- 2) What is $4\frac{5}{6} - 2\frac{1}{6}$?
- A. $2\frac{2}{6}$ C. $2\frac{4}{6}$
 B. $2\frac{3}{6}$ D. $3\frac{3}{6}$
- 3) How many lines of symmetry does a square have?
- A. 1 C. 3
 B. 2 D. 4
- 4) Round 27,392 to the nearest ten.
- A. 27,392 C. 27,300
 B. 27,400 D. 27,390
- 5) Find $\frac{5}{7} + \frac{3}{7}$ as a mixed number.



- 6) A tank can hold 200 liters of water. There are already 84 liters inside. How many more liters can fit?
- A. 84 L C. 140 L
 B. 116 L D. 200 L
- 7) Ava is comparing two running times. Her first race was 0.55 seconds and her second race was 0.50 seconds. Which time was faster?
- A. 0.55 seconds (first race) C. Both are the same
 B. 0.50 seconds (second race) D. Cannot tell from the information
- 8) A delivery truck carries 25 boxes. Each box weighs 8 pounds. What is the total weight in ounces?
- A. 200 ounces C. 3,200 ounces
 B. 800 ounces D. 6,400 ounces
- 9) Complete the equation: $7 \times \frac{1}{\quad} = \frac{7}{9}$
- A. 7 C. 9
 B. 2 D. 16
- 10) Which fraction bar shows $\frac{4}{6}$ as a sum of unit fractions?
- Choice A 
- Choice B 
- Choice C 
- Choice D 
- A. 4 parts shaded, 6 total C. 3 parts shaded, 4 total
 B. 3 parts shaded, 3 total D. 2 parts shaded, 3 total



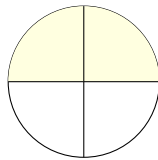
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1) A table shows multiples of $\frac{1}{3}$. What is the missing number?

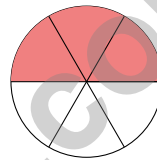
Multiplier	1	2	3	4	5
Multiple of $\frac{1}{3}$	$\frac{1}{3}$	$\frac{2}{3}$?	$\frac{4}{3}$	$\frac{5}{3}$

- A. $\frac{1}{3}$
 C. $\frac{3}{3}$
 B. $\frac{3}{6}$
 D. $\frac{2}{6}$

2) Two circles are the same size. Circle 1 shows $\frac{2}{4}$ shaded. Circle 2 shows $\frac{3}{6}$ shaded. Which statement is true?



Circle 1: $\frac{2}{4}$



Circle 2: $\frac{3}{6}$

- A. Circle 1 is more shaded
 D. Cannot compare circles of different sizes
 B. Circle 2 is more shaded
 C. Both circles are equally shaded

3) A table is 2 meters long. Convert this to centimeters.



- 4) Which quadrilateral always has four right angles?
- A. Trapezoid C. Rhombus
 B. Rectangle D. Parallelogram
- 5) A sports team has 96 uniforms. They divide them equally among 6 teams. Then each team donates 5 uniforms to a new club. How many uniforms does each team have left?
- A. 10 C. 21
 B. 16 D. 11
- 6) Which number has a 9 in the hundreds place?
- A. 9,234 C. 2,019
 B. 3,590 D. 1,945
- 7) Which of the following is a right angle?
- A. An angle less than 90° C. An angle greater than 90° but less than 180°
 B. An angle equal to 90° D. An angle equal to 180°
- 8) A garden plot needs $\frac{6}{4}$ bags of soil. The gardener already has $\frac{2}{4}$ bags. How many more bags are needed?
- A. $\frac{4}{4}$ C. $\frac{2}{4}$
 B. $\frac{8}{4}$ D. $\frac{1}{4}$



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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

- Choice B is correct.** (KY.4.NF.5) Think of it as 3 tenths. We can write $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$.
- Choice C is correct.** (KY.4.NF.1) Look at the bars: $\frac{2}{5}$ is less than half (barely), $\frac{3}{6}$ is exactly half. Only $\frac{5}{8}$ clearly passes the halfway mark.
- Choice B is correct.** (KY.4.MD.5) The blue label marks the vertex—the point where the two sides (rays) meet.
- Choice D is correct.** (KY.4.OA.2) “4 times as many” is a multiplication signal: $4 \times 12 = 48$. *Tip:* $4 \times 10 = 40$ and $4 \times 2 = 8$, so $40 + 8 = 48$ sports books.
- Choice D is correct.** (KY.4.NBT.1) We need a number that pairs with 3 to make 18. Ask: $3 \times ? = 18$. Since $3 \times 6 = 18$, the missing factor is 6.
- Choice B is correct.** (KY.4.NF.4) Seven juice boxes, each holding $\frac{1}{3}$ liter, contain $7 \times \frac{1}{3} = \frac{7}{3}$ liters total.
- Choice D is correct.** (KY.4.NBT.6) Three steps! Step 1: first company: $5 \times 48 = 240$ pages. Step 2: second company: $3 \times 65 = 195$ pages. Step 3: 240 is bigger, so the first company prints more—by $240 - 195 = 45$ pages.
- Choice D is correct.** (KY.4.OA.1) Step 1: find Owen’s soldiers: $5 \times 7 = 35$. Step 2: “how many more” is a subtraction: $35 - 5 = 30$. Owen has 30 more soldiers than Ethan.
- The correct answer is 608.** (KY.4.NBT.5) Use a clever strategy: $32 \times 19 = 32 \times (20 - 1) = 640 - 32 = 608$.
- Choice B is correct.** (KY.4.MD.5) Divide degrees by 360 to find the fraction: $\frac{210}{360} = \frac{7}{12}$ (simplifying by 30). Answer: $\frac{7}{12}$.
- Choice B is correct.** (KY.4.MD.1) Since 1 yard = 3 feet, divide: $50 \div 3 = 16$ remainder 2. The answer is 16 whole yards.
- Choice C is correct.** (KY.4.MD.3) The floor area is $15 \times 12 = 180$ sq ft.
- Choice D is correct.** (KY.4.NBT.1) The 6 in the hundreds place is worth 600, and the 6 in the tens place is worth 60. Since $600 \div 60 = 10$, the hundreds place is 10 times greater. ✓
- Choice A is correct.** (KY.4.NBT.4) Add by place value: ones $5 + 4 = 9$, tens $8 + 1 = 9$, hundreds $2 + 5 = 7$, thousands $7 + 1 = 8$. The sum is 8,799.
- Choice B is correct.** (KY.4.NF.3) Break apart $\frac{9}{4}$: two wholes are $\frac{4}{4} + \frac{4}{4}$, then add $\frac{1}{4}$ more. That’s $2\frac{1}{4}$ cups ✓.
- The correct answer is A, C.** (KY.4.MD.5) Statement A is correct: 50° contains 50 one-degree angles. Statement C is correct: a right angle measures 90° and contains 90 one-degree angles. Statement B is wrong (double-counting). Statement D is wrong (straight angle is 180° , not 90°). Statement E is wrong (full circle is 360° , not 180°).
- Choice B is correct.** (KY.4.NF.3) The baker adds fourths: $3 + 2 = 5$ fourths, giving $\frac{5}{4}$. Since that’s more than a whole cup, it’s $1\frac{1}{4}$ cups.
- The correct answer is 0.70.** (KY.4.NF.5) A trailing zero doesn’t change the value. Both 0.7 and 0.70 equal the same amount.
- Choice B is correct.** (KY.4.G.1) An isosceles triangle has two equal sides meeting at the top (vertex angle). A fold line from that top point straight down to the middle of the base creates matching left and right halves. The answer is An isosceles triangle with the line through the vertex angle.
- The correct answer is 17.** (KY.4.NBT.1) Add 3 each time: 2, 5, 8, 11, 14, 17. Figure 6 has 17 squares.
- Choice C is correct.** (KY.4.G.2) Perpendicular sides meet at 90-degree angles. A rectangle has all adjacent sides perpendicular to each other, creating four right angles. The answer is C.
- Choice D is correct.** (KY.4.NBT.1) The thousands digits match, so compare the hundreds place: $100 < 200$, therefore $54,100 < 54,200$ ✓
- Choice B is correct.** (KY.4.MD.7) From 12 o’clock to 6 o’clock is a straight line. Add both angles: $54^\circ + 126^\circ = 180^\circ$.
- Choice A is correct.** (KY.4.MD.4) Look at $\frac{1}{2}$ inch: there are 2 X marks. At $\frac{3}{2}$ inches: there are 3 X marks. The difference is $3 - 2 = 1$.
- Choice C is correct.** (KY.4.NF.3) Add the wholes: $1 + 2 = 3$. Add the fractions: $\frac{4}{5} + \frac{1}{5} = \frac{5}{5} = 1$. Combine: $3 + 1 = 4$ meters.
- Choice B is correct.** (KY.4.MD.2) Ethan has \$35 and spends \$12 on a book. Subtract: $35 - 12 = 23$ dollars. He has \$23 left.



Hi, Math Champion!

◇ You trained hard! 3 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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 designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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 TODAY.
SUCCESS TOMORROW!

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.



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 & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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