

8

Kentucky

KSA

GRADE 4

PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



**Standards-Aligned Review with
Mixed Practice and Answer Key**

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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.

Jay Daie and Reza Nazari



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Welcome, Kentucky Math Explorer!

Eight steady rounds on the Bluegrass State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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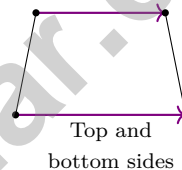
1) Which description matches a right angle?

- A. Smallest opening of all angles C. Largest opening before becoming a straight line
 B. Square corner, like the corner of a book D. Opens wider than an acute angle

2) When a student computed $3 \times \frac{2}{5}$, they wrote $\frac{5}{5}$. What is the student's likely mistake?

- A. Added $3 + 2$ instead of multiplying 3×2 C. Correctly simplified the product
 B. Changed the denominator from 5 to 10 D. Counted the units incorrectly

3) Look at the quadrilateral. Which pair of sides are parallel?



- A. Top and bottom C. All four sides
 B. Left and right D. No sides are parallel

4) Which word form matches this place-value chart?

Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	3	7	9	0

- A. Fifty-three thousand, seventy-nine C. Five hundred thirty-seven
 B. Fifty-three thousand, seven hundred nine D. Fifty-three thousand, seven hundred ninety



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- 5) Round 52,834 to the nearest hundred.
- A. 53,000 C. 52,900
 B. 52,834 D. 52,800
- 6) A repeating pattern uses colors: red, blue, green, red, blue, green. What color is the 11th item?
- A. Red C. Green
 B. Yellow D. Blue
- 7) What is $\frac{4}{10}$ as a fraction with denominator 100?
- A. $\frac{4}{100}$ C. $\frac{40}{100}$
 B. $\frac{14}{100}$ D. $\frac{44}{100}$
- 8) Which fractions are greater than $\frac{1}{2}$?
- A. $\frac{4}{10}$ and $\frac{3}{8}$ C. $\frac{2}{5}$ and $\frac{3}{6}$
 B. $\frac{5}{8}$ and $\frac{6}{10}$ D. $\frac{1}{3}$ and $\frac{2}{4}$
- 9) A rectangle has a width of 8 meters. The perimeter is 36 meters. What is the length?
- A. 12 m C. 18 m
 B. 14 m D. 10 m
- 10) Which letter has 2 lines of symmetry?
- A. *E* C. *P*
 B. *X* D. *Q*



11) In 0.84, what is the value of the digit 8 as a decimal?

12) Sam has a strip of paper divided into 8 equal parts. He colors 5 parts. Which expression shows the fraction colored as a sum of unit fractions?

A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

B. $\frac{5}{8} + \frac{5}{8}$

C. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

D. $\frac{5}{8}$

13) The fraction bar below shows $\frac{1}{4} + \frac{2}{4}$. Which description matches it?



Choice A

 A. Shows 3 shaded parts out of 4 B. Shows 2 shaded parts out of 8 C. Shows 3 shaded parts out of 3 D. Shows 1 shaded part out of 4

14) Looking at a number line, if you make 4 jumps of $\frac{1}{6}$ each, what is your final position?

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

B. $\frac{2}{6}$

C. $\frac{4}{6}$

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

15) Triple $\frac{3}{4}$.



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5) Add: $41,234 + 38,765 = ?$

A. 79,999

C. 79,989

B. 80,099

D. 80,199

6) 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. $\frac{2}{4} + \frac{2}{4} + \frac{2}{4}$

7) Sam has 24 stickers. He sorts them into 4 equal groups and keeps one group. Then he gets 8 more stickers. How many stickers does he have now?

A. 20

C. 12

B. 16

D. 14

8) Ava read $\frac{4}{5}$ of her book on Monday and $\frac{1}{5}$ on Tuesday. What fraction of the book did she read in both days?

A. $\frac{5}{5}$

C. $\frac{4}{10}$

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

D. $\frac{6}{10}$

9) The place-value tables show two decimals.

Decimal	Tenths	Hundredths
Decimal 1	6	3
Decimal 2	3	6

Which decimal is smaller?

A. Decimal 1 (0.63)

C. They are equal

B. Decimal 2 (0.36)

D. Cannot compare with diagrams



- 1) What is 45,782 rounded to the nearest thousand?
- A. 45,000 C. 46,000
 B. 45,800 D. 50,000
- 2) Two smaller angles are combined to form a larger angle. The smaller angles measure 22° and 58° . What is the measure of the larger angle?
- A. 80° C. 58°
 B. 36° D. 90°
- 3) A bakery made 40 cookies yesterday. Today they made 2 times as many cookies. How many cookies did they make today?
- A. 42 C. 100
 B. 60 D. 80
- 4) Estimate first, then find the exact answer: $48,765 + 31,234 = ?$
- A. 79,999 C. 79,899
 B. 80,000 D. 80,099
- 5) A restaurant uses 9 tablespoons of salt in each pot of soup. If they make 8 pots of soup and then use an additional 12 tablespoons for seasoning, how many tablespoons of salt do they use in total?



6) What is 3×807 ?

A. 2321

C. 2521

B. 2121

D. 2421

7) Isabella baked $4\frac{1}{2}$ trays of cookies. She sold $1\frac{1}{2}$ trays. How many trays of cookies does she have left?

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

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

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

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

8) A number line shows unit-fraction jumps. If you start at 0 and make 9 jumps of $\frac{1}{10}$, where do you land?

A. $\frac{1}{10}$

C. $\frac{1}{90}$

B. $\frac{9}{10}$

D. $\frac{10}{9}$

9) A digit 2 in the thousands place has how many times the value of a digit 2 in the tens place?

A. 10

C. 100

B. 50

D. 1,000

10) A string is $\frac{2}{8}$ meter long. If you use 2 strings of this same length, how long is the total string?

A. $\frac{4}{8}$ meter (or $\frac{1}{2}$ meter)

C. $\frac{1}{4}$ meter

B. $\frac{2}{16}$ meter

D. 1 meter



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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.MD.5) A right angle looks like the corner of a square or rectangle.
- Choice A is correct.** (KY.4.NF.4) $3 \times \frac{2}{5}$ means 3 groups of $\frac{2}{5}$. The numerator is $3 \times 2 = 6$, not $3 + 2$. So the correct answer is $\frac{6}{5}$.
- Choice A is correct.** (KY.4.G.2) The purple arrows indicate which sides are parallel. The arrows on the top and bottom sides show they are parallel to each other. The answer is **A**.
- Choice D is correct.** (KY.4.NBT.1) From the chart: ten-thousands and thousands give “fifty-three thousand”; hundreds and tens give “seven hundred ninety” ✓
- Choice D is correct.** (KY.4.NBT.3) We’re rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, we round DOWN. The hundreds digit stays at 8, giving us **52,800**. ✓
- Choice D is correct.** (KY.4.NBT.1) The pattern repeats every 3 items. Position $11 \div 3 = 3$ remainder 2, so the 11th item is the 2nd color: blue. ✓
- Choice C is correct.** (KY.4.NF.5) To convert $\frac{4}{10}$ to hundredths, multiply both the numerator and denominator by 10: $\frac{4}{10} = \frac{40}{100}$.
- Choice B is correct.** (KY.4.NF.1) Check each: $\frac{4}{10} < \frac{1}{2}$ (4 tenths), $\frac{3}{8} < \frac{1}{2}$ (3 eighths), $\frac{5}{8} > \frac{1}{2}$ (5 eighths), $\frac{6}{10} > \frac{1}{2}$ (6 tenths). Both B choices are greater.
- Choice D is correct.** (KY.4.MD.3) Use $P = 2\ell + 2w = 36$ with $w = 8$: $2\ell + 2(8) = 36$. Solve: $2\ell + 16 = 36$, so $2\ell = 20$, thus $\ell = 10$ m.
- Choice B is correct.** (KY.4.G.1) The letter X is like two lines crossing. Both diagonal directions (from top-left to bottom-right, and from top-right to bottom-left) create matching halves. The answer is letter **X**.
- The correct answer is 0.8.** (KY.4.NF.5) The first place after the decimal point is the tenths place. The digit 8 sits in the tenths place, which means 8 groups of 0.1. So its value is $8 \times 0.1 = \mathbf{0.8}$ (eight tenths). ✓
- Choice A is correct.** (KY.4.NF.3) Sam colored 5 pieces out of 8 equal parts, so the fraction is $\frac{5}{8}$. This is the sum of five unit fractions: $\frac{5}{8} = \underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{5 \text{ copies}}$.
- Choice A is correct.** (KY.4.NF.3) The bar shows 4 equal parts. One part shaded for $\frac{1}{4}$, then 2 more shaded for $\frac{2}{4}$. That makes 3 shaded parts: $\frac{3}{4}$.
- Choice C is correct.** (KY.4.NF.4) Each jump moves us $\frac{1}{6}$ unit forward. Making 4 jumps means we move $4 \times \frac{1}{6} = \frac{4}{6}$ units total.
- The correct answer is $2\frac{1}{4}$.** (KY.4.NF.4) Triple means multiply by 3. We take 3 copies of $\frac{3}{4}$: $3 \times \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$. The answer is $2\frac{1}{4}$.
- Choice D is correct.** (KY.4.NF.5) The tenths place decides it: 9 is the largest. Among the two with tenths = 9, compare hundredths: $9 > 1$, so $0.99 > 0.91$.
- The correct answer is A, D.** (KY.4.NBT.1) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓. $33 = 3 \times 11$ (composite). $35 = 5 \times 7$ (composite). 37: passes all—**prime** ✓. $39 = 3 \times 13$ (composite). So choices A and D are the prime numbers.
- The correct answer is 95.** (KY.4.MD.6) Place the protractor’s center at the vertex. Align the baseline ray with 0° . The second ray points to the 95° mark. Since $95^\circ > 90^\circ$ but $95^\circ < 180^\circ$, this is an obtuse angle. The answer is **95** degrees.
- Choice A is correct.** (KY.4.G.1) Remember: vertex in the middle! Since E is where the rays meet, we write the angle as FED with E in the middle position.
- Choice C is correct.** (KY.4.MD.7) These two adjacent angles form a straight line together: $41^\circ + 139^\circ = \mathbf{180^\circ}$.
- Choice D is correct.** (KY.4.NBT.6) Watch out for extra information! The total of 32 students is not needed for this question—we only need the number of teams. There are 4 teams, and each team earns 5 points, so $4 \times 5 = \mathbf{20}$ bonus points in all. *Tip:* on tests, always ask “does this number help me?” before using it.
- Choice D is correct.** (KY.4.MD.1) Convert all to meters to compare. 2 km = 2,000 m, 9,000 m stays 9,000 m, 3,500 m stays 3,500 m, and 15 km = 15,000 m. The longest is **15** kilometers.



Star Player Pep Talk

Hi, Star Player!

◇ 8 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 8 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

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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- ✓ Multiplication & Division
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