

8

Kentucky

KSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



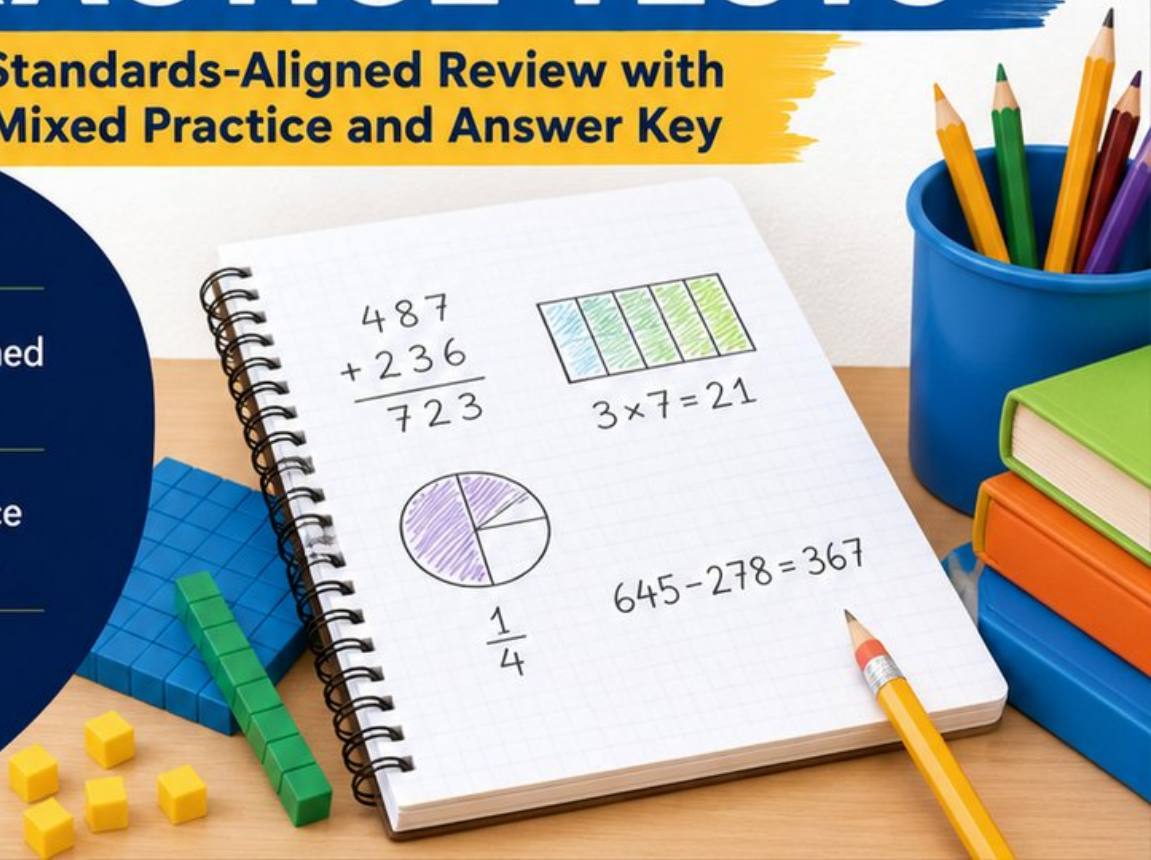
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Kentucky KSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Kentucky, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Kentucky KSA. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Kentucky has bluegrass fields, cave paths, horse farms, river overlooks, and thoughtful school days, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and follow the evidence from question to answer.

Your Kentucky Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Kentucky book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Kentucky, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the KSA

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Kentucky focus: The practice path starts with bluegrass fields, cave paths, horse farms, river overlooks, and thoughtful school days. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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& answers

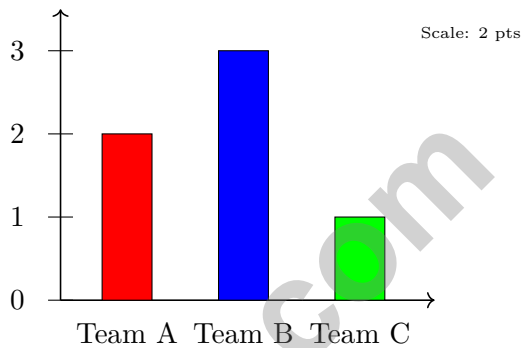
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1) A toy store organizes action figures into display cases. Each case has 3 rows with 5 figures in each row. The store has 2 display cases. How many figures are on display altogether?

- A. 30 C. 8
 B. 15 D. 10

2) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



A. Total points: 16 C. Total points: 12
 B. Total points: 14 D. Total points: 18

3) On a number line from 0 to 1 divided into 4 equal parts, what fraction is at the second tick mark from 0?

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

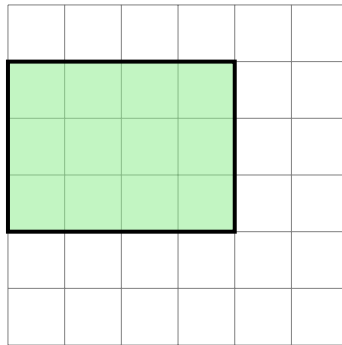
4) Which fraction is equivalent to $\frac{4}{6}$?

- A. $\frac{2}{3}$ C. $\frac{2}{4}$
 B. $\frac{4}{8}$ D. $\frac{1}{2}$



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5) Look at the shaded region on the grid. Count all unit squares to find the area.



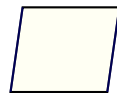
- A. 9 square units
- B. 12 square units
- C. 10 square units
- D. 15 square units

6)

×	2	4	6
2	4	8	12
3	6	12	18

Which products in this table are even?

- A. Only 4 and 8
- B. Only 6, 12, and 18
- C. All of them
- D. None of them



Opposite sides

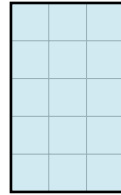
Parallelogram

7)

In a parallelogram, are the opposite sides equal in length?

- A. No, they are never equal
- B. Yes, opposite sides are equal
- C. Only the top and bottom are equal
- D. Opposite sides are perpendicular

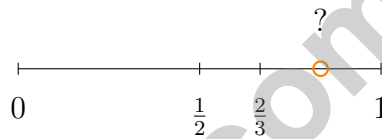
8) This rectangle is divided into unit squares on a grid.



What is the area?

- A. 8 sq units C. 20 sq units
 B. 15 sq units D. 25 sq units

9)



The orange dot is between $\frac{2}{3}$ and 1. Which comparison is true?

- A. The dot $< \frac{2}{3}$ C. The dot $= \frac{2}{3}$
 B. $\frac{2}{3} < \text{the dot} < 1$ D. The dot > 1

10) A number line from 0 to 1 has 6 tick marks total, including 0 and 1. How many equal parts are there?

- A. 4 C. 6
 B. 5 D. 7



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1) Eli can group factors two ways. Which gives the same answer?

- A. $(3 \times 4) \times 2$ and $3 \times (4 \times 2)$
 C. $(3 \times 4) \times 2$ and $(3 + 4) \times 2$
 B. $(3 \times 4) \times 2$ and $3 + (4 \times 2)$
 D. $(3 \times 4) \times 2$ and $3 \times 4 - 2$

2)

Row	1st	2nd	3rd	4th
A	3	6	9	12
B	5	10	15	20

Which row shows multiples of 3?

- A. Row A only
 C. Both rows
 B. Row B only
 D. Neither row
- 3) Lily sees a number line divided into sixths. She marks $\frac{6}{6}$. Where is her mark?

- A. At 0
 C. At 1
 B. Beyond 6
 D. At 6

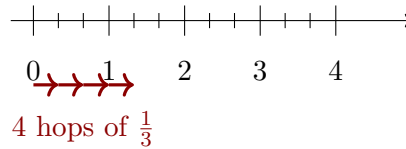
4) Which comparison is true?

- A. $\frac{4}{8} > \frac{4}{4}$ ($4/4 =$ whole)
 C. $\frac{4}{8} = \frac{4}{4}$
 B. $\frac{4}{8} < \frac{4}{4}$ ($4/8 =$ half)
 D. $\frac{4}{4} < \frac{4}{8}$ (fewer pieces = more)

5) A line plot shows plant stem lengths in centimeters: 12, $12\frac{1}{4}$, $12\frac{1}{2}$, $12\frac{3}{4}$, 13. The counts are: 3 at 12 cm, 1 at $12\frac{1}{4}$ cm, 0 at $12\frac{1}{2}$ cm, 2 at $12\frac{3}{4}$ cm, and 1 at 13 cm. What is the range?

- A. $\frac{1}{4}$ cm
 C. 1 cm
 B. $\frac{3}{4}$ cm
 D. 2 cm





1)

A frog makes 4 hops, each of size $\frac{1}{3}$, starting at 0 on a number line from 0 to 4 divided into thirds. Where does the frog end up?

- A. $\frac{3}{3}$ (at 1) C. $\frac{1}{3}$ (before 1)
 B. $\frac{4}{3}$ (between 1 and 2) D. $\frac{7}{3}$ (past 2)

2) Lily bakes 36 cupcakes. She divides them equally into 4 boxes. She sells 2 boxes. How many cupcakes does she have left?

- A. 9 C. 27
 B. 18 D. 36

3) Look at these three different ways to group the factors in the same multiplication.

Group 1: $(2 \times 6) \times 5$

First: $2 \times 6 = 12$. Then: $12 \times 5 = 60$

Group 2: $2 \times (6 \times 5)$

First: $6 \times 5 = 30$. Then: $2 \times 30 = 60$

Group 3: $6 \times (2 \times 5)$

First: $2 \times 5 = 10$. Then: $6 \times 10 = 60$

Which groupings show the associative property without changing the order of the factors?

- A. Only Group 1 C. All three groups
 B. Groups 2 and 3 only D. Groups 1 and 2 only

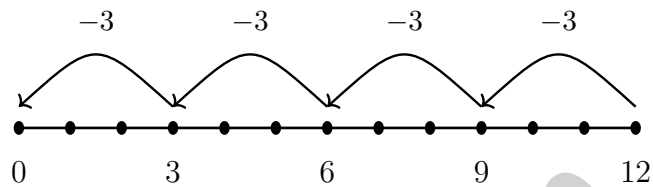


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4) An L-shaped deck has areas 18 sq units and 10 sq units. What is the total area of the deck?

- A. 8 sq units C. 36 sq units
 B. 28 sq units D. 180 sq units

5) Which division sentence is shown on the number line?



- A. $12 \div 3 = 4$ C. $12 \div 6 = 2$
 B. $12 \div 4 = 3$ D. $12 - 3 = 9$

6) A juice box holds 200 mL. If a student drinks 3 juice boxes, how many milliliters does he drink?

- A. 200 mL C. 600 mL
 B. 400 mL D. 800 mL

7) Which two rectangles have the same area?

- A. 2×10 and 3×7 C. 3×8 and 4×6
 B. 5×5 and 6×4 D. 3×6 and 4×4

8) A square garden has sides of 6 units each. Sam wants to tile it with unit square stepping stones. How many stones does he need to cover the entire garden?

- A. 12 stones C. 36 stones
 B. 24 stones D. 48 stones



Practice Test Answer Keys

How to use this section with a Grade 3 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 A is correct.** (KY.3.OA.3) First find figures per case: 3 rows \times 5 figures per row = 15 figures per case. Then multiply by number of cases: $15 \times 2 = 30$ figures altogether.
- 2) **Choice C is correct.** (KY.3.NBT.3) Team A: $2 \times 2 = 4$. Team B: $3 \times 2 = 6$. Team C: $1 \times 2 = 2$. Total: $4 + 6 + 2 = 12$.
- 3) **Choice B is correct.** (KY.3.NF.2) Each tick is $\frac{1}{4}$ of the distance from 0 to 1. The second tick is 2 copies of $\frac{1}{4} = \frac{2}{4}$.
- 4) **Choice A is correct.** (KY.3.NF.3) Divide the numerator and denominator of $\frac{4}{6}$ by 2: $\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$.
- 5) **Choice B is correct.** (KY.3.MD.5) The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 6) **Choice C is correct.** (KY.3.OA.9) All products are even because one of the factors is even (2, 4, or 6). Even times any number is even.
- 7) **Choice B is correct.** (KY.3.G.2) In a parallelogram, opposite sides are not only parallel, but they are also equal in length.
- 8) **Choice B is correct.** (KY.3.MD.6) $3 \times 5 = 15$ unit squares.
- 9) **Choice B is correct.** (KY.3.NF.3) The orange dot is positioned between the $\frac{2}{3}$ mark and 1 on the number line, so it represents a fraction between $\frac{2}{3}$ and 1. This fraction is $\frac{5}{6}$.
- 10) **Choice B is correct.** (KY.3.NF.1) Six tick marks create five equal segments. The unit fraction is $\frac{1}{5}$.
- 11) **Choice A is correct.** (KY.3.NF.2) $\frac{2}{6} = \frac{1}{3}$. When you simplify $\frac{2}{6}$, you get one-third.
- 12) **The correct answer is 48.** (KY.3.OA.5) $6 \times 5 = 30$ and $6 \times 3 = 18$, so $30 + 18 = 48$.
- 13) **Choice B is correct.** (KY.3.MD.7) Adding the width 2 six times: $2 + 2 + 2 + 2 + 2 + 2 = 12$. This is the same as $6 \times 2 = 12$ square units.
- 14) **Choice C is correct.** (KY.3.MD.1) $5 : 42 + 38 \text{ min} = 5 : 42 + 18 \text{ min} + 20 \text{ min} = 6 : 00 + 20 \text{ min} = 6 : 20 \text{ PM}$.
- 15) **Choice A is correct.** (KY.3.NBT.2) Ones: $7 + 6 = 13$ (write 3, carry 1). Tens: $6 + 1 + 1 = 8$. Hundreds: $5 + 2 = 7$. Answer: 783.
- 16) **Choices A and B are correct.** (KY.3.G.2) $\frac{4}{2}$ has 4 halves = 2 wholes. $\frac{6}{3}$ has 6 thirds = 2 wholes. Choice C equals 1, and choices D and E do not equal 2.
- 17) **The correct answer is 2 scores.** (KY.3.OA.2) The scores 81 and 82 points each occur once, so there are 2 scores occurring exactly once.
- 18) **Choice A is correct.** (KY.3.NBT.1) The ones digit is 2. Since $2 < 5$, round down: 662 rounds to 660.
- 19) **Choice B is correct.** (KY.3.MD.1) 8000 mL is more than 6000 mL. So Fountain B holds less.
- 20) **Choice C is correct.** (KY.3.NF.1) Folding a sheet into 2 equal parts creates two halves, each one is $\frac{1}{2}$.
- 21) **The correct answer is 9.** (KY.3.OA.6) $36 \div 4 = 9$ because $9 \times 4 = 36$. We find the missing factor in the multiplication fact.
- 22) **Choice C is correct.** (KY.3.MD.5) Left: $6 \times 5 = 30$ sq ft. Right: $4 \times 3 = 12$ sq ft. Total: $30 + 12 = 42$ sq ft.
- 23) **Choice C is correct.** (KY.3.MD.5) 6 units wide by 3 units tall: $6 \times 3 = 18$ square units.
- 24) **Choice D is correct.** (KY.3.NBT.3) 8 groups of 10 = $8 \times 10 = 80$ stickers. The place-value chart shows 8 tens and 0 ones, which equals 80.
- 25) **Choice B is correct.** (KY.3.G.2) If each part is $\frac{1}{2}$, the shape is divided into 2 equal parts.
- 26) **Choice C is correct.** (KY.3.NF.3) $\frac{1}{3}$ and $\frac{2}{6}$ show the same shaded amount.
- 27) **Choice A is correct.** (KY.3.G.2) Add the two smaller rectangle areas: $3 \times 3 = 9$ and $4 \times 3 = 12$, so total is 21 square units.
- 28) **Choice A is correct.** (KY.3.MD.6) A unit square has side length 1 unit. If measured in inches, that is $1 \text{ in} \times 1 \text{ in} = 1$ square inch.
- 29) **Choice D is correct.** (KY.3.OA.2) Skip counting by 3 six times gives 0, 3, 6, 9, 12, 15, 18. This represents 6 groups of 3, so $6 \times 3 = 18$.
- 30) **Choice D is correct.** (KY.3.OA.7) $7 \times 7 = 49$. Seven groups of 7 equals 49.



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Hi, Brave Explorer!

◇ What a trip! You explored 8 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 8 tests, you learned a lot. You are a stronger math explorer now. ★

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
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