

+
★
10

=
Kentucky
KSA



GRADE 3

△ **MATH** ▽

÷ **PRACTICE TESTS** =

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

2 × 7 + 4



★ ★ ★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Kentucky KSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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!

Ten steady rounds on the Bluegrass State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Kentucky book.
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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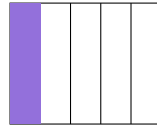
★ Practice Test 1	_____	13
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1) Which picture shows $\frac{1}{4}$ shaded?

A



B



C

 A. Picture A C. Picture C B. Picture B D. None of these

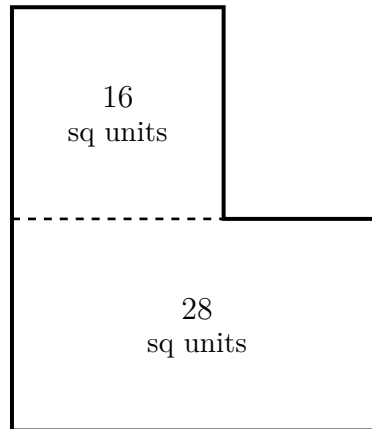
2) Write a fraction equivalent to $\frac{1}{2}$ with a denominator of 4 using multiplication.

3) A teacher buys 5 packs of colored paper with 10 sheets each for a project. She divides them equally among 5 students. How many sheets does each student get?

 A. 5 C. 15 B. 25 D. 10

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- 4) An L-shaped courtyard has areas of 28 sq units and 16 sq units marked. Find the total area.



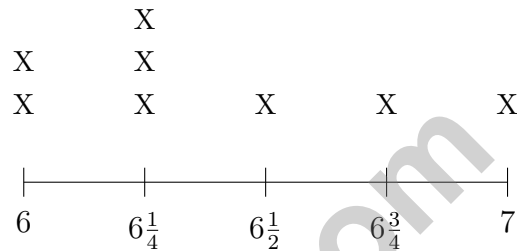
- A. 12 sq units C. 56 sq units
 B. 44 sq units D. 448 sq units
- 5) A classroom is shaped like a rectangle. The length is 9 meters and the width is 3 meters. What is the area of the classroom?
- A. 12 sq m C. 24 sq m
 B. 18 sq m D. 27 sq m



- 1) A bar graph shows books checked out from the library. One bar is 4 units tall, the other is 2 units tall. Each unit represents 5 books. How many more books does the first bar show?

- A. 2 C. 15
 B. 10 D. 20

- 2) A line plot shows jump rope lengths in feet: 6 , $6\frac{1}{4}$, $6\frac{1}{2}$, $6\frac{3}{4}$, 7 .



How many jump ropes are at least $6\frac{1}{4}$ feet long?

- A. 5 C. 7
 B. 6 D. 8
- 3) A crowd of 523 people watched a game. Round to the nearest 100 to estimate the crowd size.
- A. 500 C. 523
 B. 520 D. 600
- 4) Noah counts unit squares to measure the area of a shape. He gets 9 unit squares. What is the area of the shape?

- A. 3 square units C. 9 square units
 B. 6 square units D. 18 square units



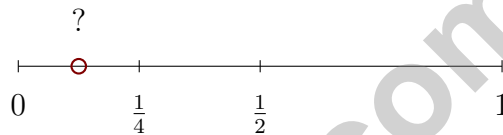
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5) How does area differ from perimeter?

- A. Area is always larger than perimeter
 B. Perimeter measures inside; area measures distance around
 C. Area measures inside; perimeter measures distance around
 D. Both measure the same thing differently

6) Lily cuts an orange into 8 equal slices. What fraction is one slice?

- A. $\frac{1}{8}$
 B. $\frac{7}{8}$
 C. $\frac{8}{8}$
 D. $\frac{1}{7}$



7)

The red dot is between 0 and $\frac{1}{4}$. What fraction could it be?

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

8) A rectangular floor needs 6 rows of tiles with 9 tiles in each row. How many tiles are needed in total?

- A. 15
 B. 54
 C. 36
 D. 69

9)

×	1	2	3	4
2	2	4	6	8

All highlighted products are even. Why?

- A. Because they are in a table
 B. Because they have 4 entries
 C. Because the numbers are small
 D. Because they are multiplied by 2



1) Ben bought 3 packs of erasers. Each pack has 8 erasers. How many erasers did Ben buy?

A. $8 \times 3 = 24$

B. $3 + 8 = 11$

C. $3 \times 3 = 9$

D. $8 + 8 = 16$

2) Which number sentence is false?

A. $2 \times 9 = 9 \times 2$

B. $(2 \times 3) \times 3 = 2 \times (3 \times 3)$

C. $8 \times 6 = 7 \times 6 + 1$

D. $4 \times (2 + 3) = 4 \times 2 + 4 \times 3$

3) Ben has one whole cookie. Which fraction represents this?

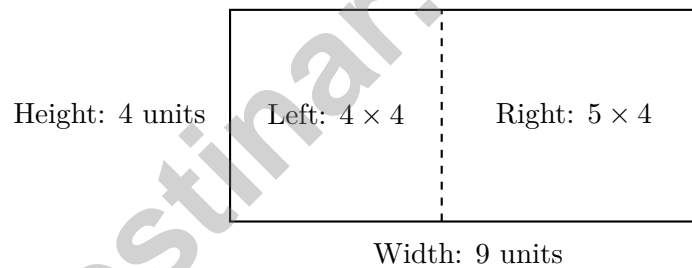
A. $\frac{1}{2}$

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

C. $\frac{1}{0}$

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

4) This rectangle is split by a vertical line:



Which is the correct distributive property equation?

A. $4 \times (4 + 5) = (4 \times 4) + (4 \times 5) = 16 + 20 = 36$

B. $9 + 4 = 13$

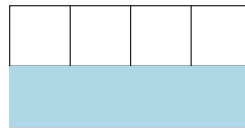
C. $(4 \times 4) + (5 \times 4) = 16 + 20 = 36$

D. $(4 + 5) \times 4 = 36$



5) Find $7 \times 9 + 5$.

6) Look at the rectangle divided into 8 equal parts. Which fraction in eighths describes the shaded part?



- A. $\frac{1}{8}$
 B. $\frac{2}{8}$

- C. $\frac{4}{8}$
 D. $\frac{3}{8}$

7) Sam buys 5 packs of stickers. Each pack has 6 stickers. How many stickers does Sam buy?

- A. 11
 B. 25

- C. 35
 D. 30

8) Ava makes 5 sets of picture cards. Each set has 20 cards. How many cards does Ava make?

- A. 25
 B. 52

- C. 100
 D. 1000



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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 C is correct.** (KY.3.NF.1) Picture C shows a rectangle divided into 4 equal parts with 1 part shaded, which is $\frac{1}{4}$.
- 2) **The correct answer is $\frac{2}{4}$.** (KY.3.NF.3) Multiply the numerator and denominator by 2: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 3) **Choice D is correct.** (KY.3.OA.8) Step 1: Total sheets: $5 \times 10 = 50$ sheets. Step 2: Divide among students: $50 \div 5 = 10$ sheets per student.
- 4) **Choice B is correct.** (KY.3.MD.5) Add the areas: $28 + 16 = 44$ square units.
- 5) **Choice D is correct.** (KY.3.MD.6) Area = $9 \times 3 = 27$ square meters.
- 6) **Choice C is correct.** (KY.3.OA.2) Count all X's on the plot: $4 + 0 + 2 + 1 = 7$ items total. (0 items appear at $5\frac{1}{2}$ since there are no X's there.)
- 7) **Choice B is correct.** (KY.3.NF.3) $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- 8) **The correct answer is 40 tiles.** (KY.3.MD.5) Count the rows: 5 rows of tiles. Count across: 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 = 40$ square foot tiles cover the floor.
- 9) **Choice B is correct.** (KY.3.MD.5) Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 10) **Choice A is correct.** (KY.3.G.2) The distributive property multiplies 4 by each part separately, then adds: $4 \times (6+1) = (4 \times 6) + (4 \times 1)$.
- 11) **Choice A is correct.** (KY.3.NBT.3) Red: $2 \times 5 = 10$. Blue: $3 \times 5 = 15$. Green: $4 \times 5 = 20$. Total: $10 + 15 + 20 = 45$.
- 12) **Choice B is correct.** (KY.3.G.2) When divided into 8 equal parts, each part is $\frac{1}{8}$ of the whole square.
- 13) **Choice D is correct.** (KY.3.OA.2) Measurement division: $36 \div 6 = 6$. There are 6 groups of 6 stickers.
- 14) **Choice B is correct.** (KY.3.G.2) A rectangle has two pairs of opposite equal sides: one pair of long sides and one pair of short sides.
- 15) **Choice B is correct.** (KY.3.MD.1) $1 \text{ kg} = 1000 \text{ g}$.
- 16) **Choice C is correct.** (KY.3.NBT.3) Multiply $8 \times 6 = 48$, then multiply by 10: $8 \times 60 = 480$. The chart shows 4 hundreds, 8 tens, and 0 ones.
- 17) **Choices A and C are correct.** (KY.3.OA.3) Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 18) **Choice D is correct.** (KY.3.NBT.1) The tens digit is 8. Since $8 \geq 5$, round up: 682 rounds to 700.
- 19) **Choice D is correct.** (KY.3.OA.2) $4 \times 5 = 20$, $5 \times 4 = 20$, and $10 + 10 = 20$. But $3 \times 6 = 18$, which is not 20.
- 20) **Choice B is correct.** (KY.3.MD.7) Area = $2 \times 3 = 6$ square cm.
- 21) **The correct answer is 623.** (KY.3.NBT.2) Ones: $5 + 8 = 13$ (write 3, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $3 + 2 + 1 = 6$. Final answer: 623.
- 22) **Choice D is correct.** (KY.3.NF.2) $\frac{2}{6} = \frac{1}{3}$. When Sam eats $\frac{2}{6}$ of Bar 2, he ate the same amount as $\frac{1}{3}$ of Bar 1.
- 23) **Choice D is correct.** (KY.3.OA.4) Multiply: $7 \times 3 = 21$. Check: $21 \div 3 = 7$.
- 24) **Choice D is correct.** (KY.3.OA.9) $20 + 5 = 25$, $25 + 5 = 30$, $30 + 5 = 35$, etc. Each number increases by 5.
- 25) **Choice D is correct.** (KY.3.NBT.3) Area = length \times width = $8 \times 7 = 56$ square inches.
- 26) **Choice D is correct.** (KY.3.OA.5) The distributive property lets us break apart a sum. Here, $7 \times (5 + 2)$ is distributed to $7 \times 5 + 7 \times 2 = 35 + 14 = 49$.
- 27) **Choice C is correct.** (KY.3.MD.6) A 3×3 square contains $3 \times 3 = 9$ unit squares.
- 28) **Choice D is correct.** (KY.3.OA.7) 8×6 means 8 groups of 6. Skip-counting: 6, 12, 18, 24, 30, 36, 42, 48. The product is 48.
- 29) **Choice B is correct.** (KY.3.NF.2) The first tick mark on a number line divided into 2 equal parts is $\frac{1}{2}$.
- 30) **Choice C is correct.** (KY.3.OA.2) Count rows and columns: $6 \times 4 = 24$ square units. Bridge from visual tiling to multiplication.



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From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 10 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

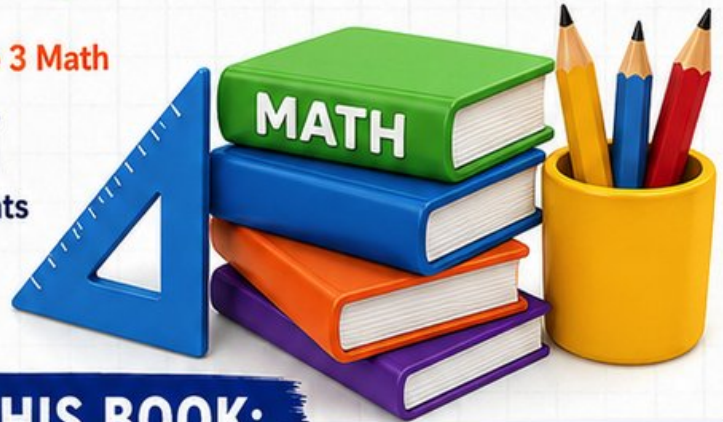
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Family

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