

3

Kentucky

KSA

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



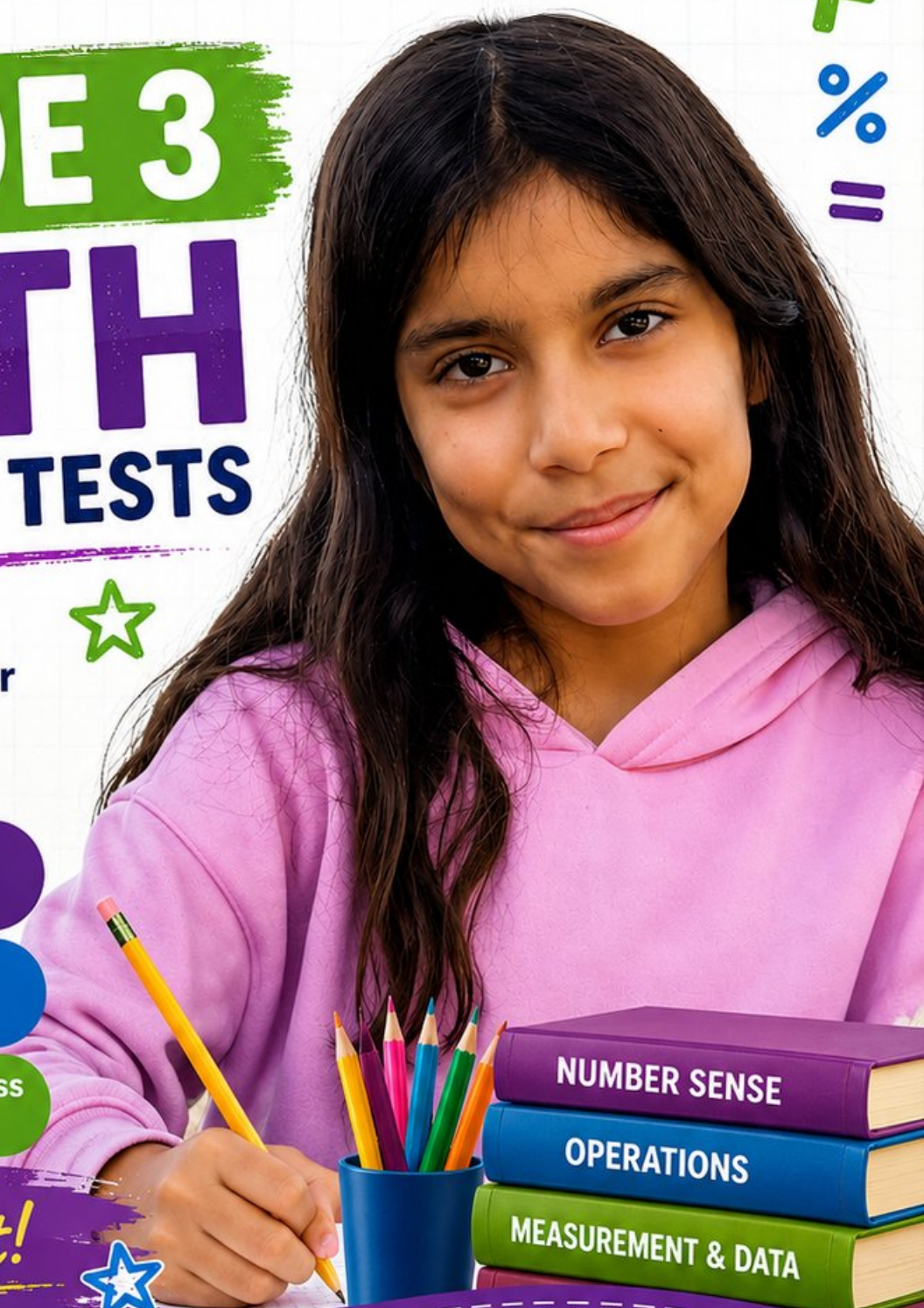
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

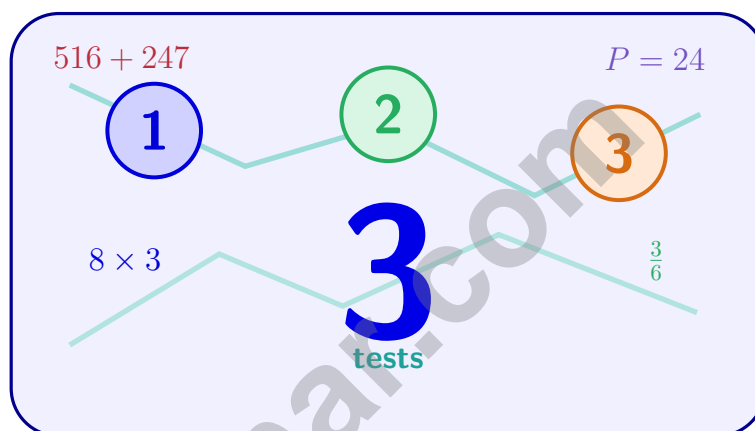


Be Ready.
Do Your Best!



3 Kentucky KSA Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 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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How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Kentucky KSA asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong KSA work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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1) A number line from 0 to 1 is divided into equal parts. Which first tick is closest to 0?

- A. $\frac{1}{2}$
 C. $\frac{1}{6}$
 B. $\frac{1}{4}$
 D. $\frac{1}{8}$

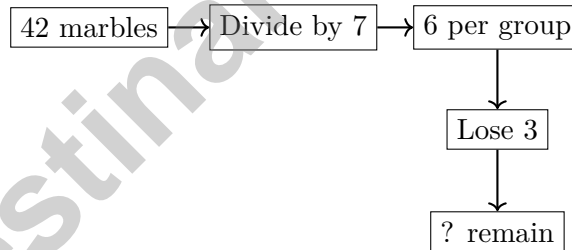
2) Mia writes this list of odd numbers: 1, 3, 5, 7, 9
What is the next odd number in the pattern?

- A. 10
 C. 12
 B. 13
 D. 11

3) Ben colors $\frac{2}{6}$ of a picture. Which is equivalent?

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

4) Tommy has 42 marbles. He divides them into 7 equal groups for a game. Then he loses 3 marbles from one group. How many marbles are in that group now?



- A. 3
 C. 7
 B. 6
 D. 42

5) Look at the bars. Which fraction is equivalent to $\frac{2}{4}$?



- A. $\frac{3}{8}$
 C. $\frac{1}{4}$
 B. $\frac{4}{8}$
 D. $\frac{2}{6}$



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6) Which bar shows 3 wholes using the fraction $\frac{6}{2}$?

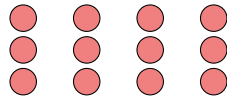


- A. Yes, it shows 3 wholes
- B. No, it shows 2 wholes
- C. No, it shows 6 wholes
- D. No, it shows 1 whole

7) Round 476 to the nearest 100.

- A. 400
- B. 470
- C. 475
- D. 500

8)

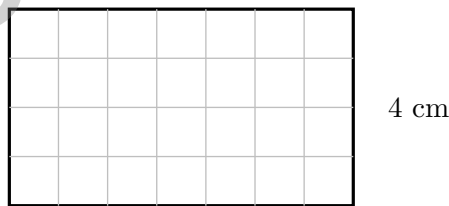


How many circles are in this picture?

- A. 7 circles
- B. 10 circles
- C. 9 circles
- D. 12 circles

9) Which shape would NOT be classified as a quadrilateral?

- A. Pentagon
- B. Parallelogram
- C. Trapezoid
- D. Rectangle



10)

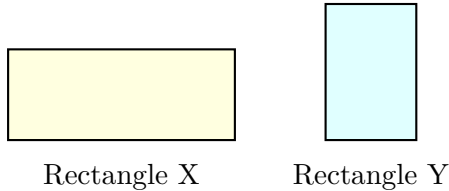
7 cm

4 cm

Count the grid squares to find the area.

- A. 11 sq cm
- B. 22 sq cm
- C. 28 sq cm
- D. 35 sq cm

- 11) Look at two rectangles side by side. Rectangle X covers more unit squares than Rectangle Y. What can you say about them?



- A. Rectangle X has a greater area
- B. Rectangle Y has a greater area
- C. They have the same area
- D. Rectangle X is taller
- 12) If $7 \times 9 = 63$, what is 9×7 ?
-
- 13) A concert starts at 6 : 15 PM and ends at 8 : 30 PM. How long does the concert last?
- A. 2 hours 15 minutes
- B. 3 hours 15 minutes
- C. 2 hours 45 minutes
- D. 1 hour 45 minutes
- 14) Lily buys 3 packages of toy cars. Each package has 40 toy cars. How many toy cars does Lily buy?
- A. 34
- B. 43
- C. 120
- D. 1200



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1) A rectangle has length 7 units and width 3 units. What is its perimeter?

- A. 10 units C. 28 units
 B. 21 units D. 20 units

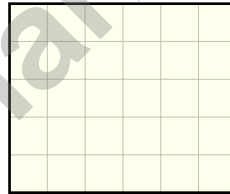
2) Look at the rows in a multiplication table:

×	1	2	3	4
3	3	6	9	12
4	4	8	12	16

What increases by 3 in the row for 3?

- A. The multiplier on the top C. The column number
 B. The table title D. The product each time

3) On this grid, how many unit squares cover the rectangle?



- A. 11 sq units C. 30 sq units
 B. 22 sq units D. 35 sq units

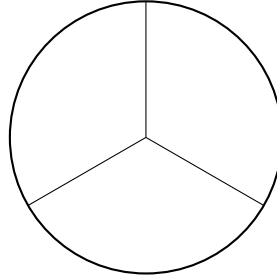
4) Two identical number lines go from 0 to 1. Point A marks $\frac{2}{3}$. Point B marks $\frac{4}{6}$. Do they mark the same position?

- A. Cannot tell from the description. C. Yes, same position.
 B. No, B is further right. D. No, A is further right.



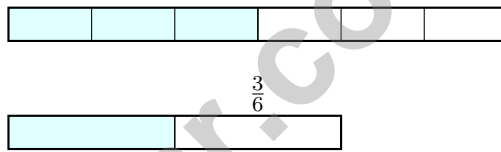
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- 1) A circle is divided into equal parts. Each part is $\frac{1}{3}$ of the circle. How many equal parts is the circle divided into?



- A. 2 parts C. 4 parts
 B. 3 parts D. 6 parts

- 2) Find a fraction equivalent to $\frac{3}{6}$. Look at the bars.



- A. $\frac{2}{5}$ C. $\frac{1}{3}$
 B. $\frac{1}{2}$ D. $\frac{2}{6}$

- 3) Noah wants to use the associative property to solve $(3 \times 4) \times 2$. Which equation correctly uses the associative property?

- A. $(3 + 4) \times 2 = 14$ C. $(3 \times 4) \times 2 = 3 \times 4 \times 2 = 9$
 B. $(3 \times 4) \times 2 = 3 \times (4 + 2) = 18$ D. $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 3 \times 8 = 24$



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- 4) A soccer practice starts at 4 : 05 PM and ends at 5 : 28 PM. How long is practice?
- A. 1 hour 17 minutes C. 1 hour 23 minutes
 B. 1 hour 20 minutes D. 1 hour 30 minutes
- 5) A bar graph shows the scale as 5 items per unit. If a bar is 4 units tall, it represents how many items?
- A. 4 items C. 20 items
 B. 9 items D. 25 items
- 6) Which is equivalent to $\frac{1}{4}$?
- A. $\frac{2}{4}$ C. $\frac{2}{8}$
 B. $\frac{1}{8}$ D. $\frac{4}{8}$
- 7) Two identical rectangles. Rectangle M has 3 parts out of 4 shaded. Rectangle N has 6 parts out of 8 shaded. Do they have the same shaded amount?

Rectangle M: $\frac{3}{4}$ 

Rectangle N: $\frac{6}{8}$ 

- A. No, M is larger. C. Yes, same amount.
 B. No, N is larger. D. Rectangles are different sizes.



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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (KY.3.NF.1) Eighths are the smallest pieces listed, so the first tick at $\frac{1}{8}$ is closest to 0.
- Choice D is correct.** (KY.3.OA.9) Odd numbers go up by 2 each time. Add 2 to 9 to get 11.
- Choice C is correct.** (KY.3.NF.3) $\frac{2}{6}$ and $\frac{1}{3}$ both equal one-third of a whole.
- Choice A is correct.** (KY.3.OA.8) Step 1: Marbles per group: $42 \div 7 = 6$ marbles. Step 2: Lose from one group: $6 - 3 = 3$ marbles.
- Choice B is correct.** (KY.3.NF.3) Multiply numerator and denominator by 2: $\frac{2 \times 2}{4 \times 2} = \frac{4}{8}$.
- Choice A is correct.** (KY.3.G.2) $\frac{6}{2}$ means 6 halves. 2 halves make 1 whole, so $6 \div 2 = 3$ wholes. The bar is divided into 3 sections (thick lines).
- Choice D is correct.** (KY.3.NBT.1) The tens digit is 7. Since $7 \geq 5$, round up: 476 rounds to 500.
- Choice D is correct.** (KY.3.OA.2) The picture shows 4 columns with 3 circles in each column. So $4 \times 3 = 12$ circles.
- Choice A is correct.** (KY.3.G.2) A pentagon has 5 sides, so it is not a quadrilateral. A quadrilateral must have exactly 4 sides.
- Choice C is correct.** (KY.3.MD.7) The grid has 7 columns and 4 rows. Area = $7 \times 4 = 28$ square cm. You can also add: $7 + 7 + 7 + 7 = 28$ (four rows of seven).
- Choice A is correct.** (KY.3.MD.5) Rectangle X covers $5 \times 2 = 10$ square units. Rectangle Y covers $2 \times 3 = 6$ square units. So Rectangle X has the greater area.
- The correct answer is 63.** (KY.3.OA.5) The commutative property gives $9 \times 7 = 63$.
- Choice A is correct.** (KY.3.MD.1) From 6 : 15 PM to 8 : 15 PM is 2 hours. From 8 : 15 PM to 8 : 30 PM is 15 more minutes. Total: 2 hours 15 minutes. Distractor C adds incorrectly; B over-counts hours.
- Choice C is correct.** (KY.3.NBT.3) 3 packages of 40 cars = $3 \times 40 = 120$ cars. Multiply $3 \times 4 = 12$, then add one zero.
- Choice C is correct.** (KY.3.NBT.3) Area = length \times width = $9 \times 5 = 45$ square feet.
- Choices A and B are correct.** (KY.3.NBT.3) Each star represents 2 stickers. A is true because $5 \times 2 = 10$, and B is true because $3 \times 2 = 6$. C should be 8, not 9; D should be 12, not 18; and E should be 4, not 1.
- Choice D is correct.** (KY.3.OA.3) There are 5 equal groups of 4 coins. Multiply: $5 \times 4 = 20$ coins.
- Choice C is correct.** (KY.3.MD.6) Both shapes are made of 6 unit squares, so both have area 6 square units, even though they have different dimensions.
- The correct answer is 15 centimeters.** (KY.3.MD.8) $44 = 2\ell + 2(7) = 2\ell + 14$, so $2\ell = 30$ and $\ell = 15$ cm.
- Choice B is correct.** (KY.3.OA.2) Add known values: $3 + 1 + 4 = 8$. Subtract from total: $11 - 8 = 3$ bookmarks at $2\frac{1}{2}$ inches.
- Choice C is correct.** (KY.3.OA.7) $9 \times 4 = 36$ is correct. The others: $7 \times 6 = 42$, $8 \times 6 = 48$, $5 \times 9 = 45$.
- Choice B is correct.** (KY.3.MD.5) Count the rows: 3 rows. Count across each row: 6 tiles. Total: $6 + 6 + 6 = 18$ unit square tiles are needed.
- Choice C is correct.** (KY.3.OA.2) $7 \times 5 = 35$ square units.
- Choice C is correct.** (KY.3.NF.2) $\frac{3}{6} = \frac{1}{2}$. Both represent one-half of the circle.
- Choice D is correct.** (KY.3.NF.2) The line is divided into thirds, so $\frac{1}{4}$ is not a tick mark on this particular number line.
- Choice C is correct.** (KY.3.G.2) 3×5 and 2×4 do not share a matching side length. To use this area model, the two smaller rectangles need one matching dimension.
- Choice D is correct.** (KY.3.OA.4) In a fact-family triangle, the top is the product. If one factor is 4 and the product is 36, then $36 \div 4 = 9$, so the other factor is 9.
- Choice C is correct.** (KY.3.NF.2) $\frac{4}{6}$ means count 4 copies of unit $\frac{1}{6}$ starting at 0. The 4th tick mark is $\frac{4}{6}$.
- Choice D is correct.** (KY.3.OA.6) The fact family for $7 \times 8 = 56$ includes both $56 \div 7 = 8$ and $56 \div 8 = 7$.
- The correct answer is $\frac{1}{6}$.** (KY.3.NF.1) One of 6 equal parts is $\frac{1}{6}$.



A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 3 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 3 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



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Track improvement and build confidence with every test.



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- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.