

# 7

# Kentucky

## KSA

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

# 7 Kentucky KSA Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Bluegrass State math route

This book gives you seven 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?

Seven tests, 210 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 5–7    | 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 of these statements about the letter  $R$  is correct?

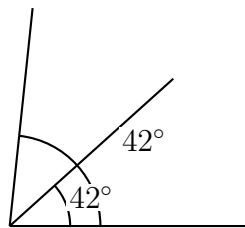
- A. It has 1 line of symmetry       C. It has no line of symmetry  
 B. It has 2 lines of symmetry       D. It has many lines of symmetry

2) How many sides does an angle have?

3) A bakery makes 6 batches of cookies. Each batch has 25 cookies. They box the cookies in groups of 8 per box. How many complete boxes can they make?

- A. 19       C. 20  
 B. 17       D. 18

4) Two rays meet at a vertex, forming an angle. The angle is divided into two equal parts by another ray. If each part measures  $42^\circ$ , what is the total angle measure?



- A.  $42^\circ$        C.  $21^\circ$   
 B.  $84^\circ$        D.  $90^\circ$



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5) Use this place-value table:

| Hundred-Thousands | Ten-Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| 5                 | 2             | 1         | 4        | 0    | 6    |

What is the value of the ten-thousands digit?

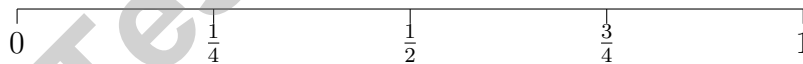
- A. 2                                       C. 200  
 B. 20                                       D. 20,000

6) A toy costs \$15. If Maya buys 5 toys, how much money does she spend in total?

7) Add:  $5,234 + 2,145 = ?$

- A. 7,279                                       C. 7,479  
 B. 8,379                                       D. 7,379

8) On a number line from 0 to 1, where does  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$  land?



- A.  $\frac{1}{4}$      C.  $\frac{3}{4}$   
 B.  $\frac{1}{2}$      D.  $\frac{5}{4}$



9) Which decimal represents  $\frac{7}{10}$ ?

A. 0.07

C. 7.0

B. 0.7

D. 0.77

10) On a line plot showing string lengths in fourths, there are 2 X marks at  $\frac{1}{4}$  inch, 3 X marks at  $\frac{2}{4}$  inch, and 1 X mark at  $\frac{3}{4}$  inch. What is the total number of strings?

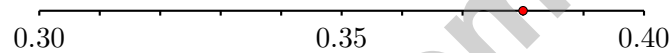
A. 4

C. 6

B. 5

D. 7

11) Look at the number line. What decimal is marked by the dot?



A. 0.38

C. 0.3

B. 0.8

D. 0.83

12) What is the remainder when 762 is divided by 9?

A. 2

C. 6

B. 4

D. 8

13) A triangle has one right angle. What type of triangle is it?

A. Acute triangle

C. Right triangle

B. Obtuse triangle

D. Equilateral triangle

14) Select the TWO bar models that have the same value as  $3 \times \frac{2}{4}$ .

A. One bar divided into 4 parts with 3 parts shaded

B. Three bars each divided into 4 parts with 2 parts shaded in each

C. Three bars each divided into 2 parts with 1 part shaded in each

D. Two bars each divided into 3 parts with 3 parts shaded in each

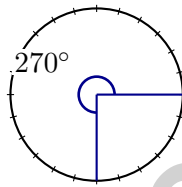
E. Six bars each divided into 2 parts with 1 part shaded in each



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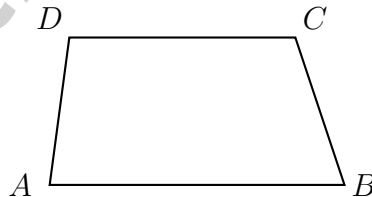
- 1) An angle of  $156^\circ$  is split into two smaller angles. If one angle is  $89^\circ$ , what is the measure of the other angle?

2)



This is a reflex angle measuring 270 degrees. How many one-degree angles make it?

- A. 135 one-degree angles       C. 540 one-degree angles  
 B. 270 one-degree angles       D. 27 one-degree angles
- 3) This trapezoid has different leg lengths. How many lines of symmetry does it have?



- A. 0 lines       C. 2 lines  
 B. 1 line       D. 4 lines



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4) Mia shaded  $\frac{1}{8}$  on three different fraction bars. What is the total shaded?

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

B.  $\frac{3}{8}$

C.  $\frac{3}{24}$

D.  $\frac{1}{24}$

5) What is 64,950 rounded to the nearest thousand?

A. 64,900

B. 64,000

C. 65,000

D. 60,000

6) Sam has a rectangular sheet of paper. It is 11 inches long and 9 inches wide. What is its area?

A. 20 sq in

B. 40 sq in

C. 99 sq in

D. 110 sq in

7) Noah walks  $\frac{2}{8}$  mile each day. How far does he walk in 4 days?

A.  $\frac{8}{8}$  mile or 1 mile

B.  $\frac{2}{32}$  mile

C.  $\frac{6}{8}$  mile

D.  $\frac{4}{8}$  mile

8) What is  $3,564 \div 6$ ?

A. 594

B. 604

C. 614

D. 584



1) A container holds 2 kilograms of rice. How much rice is in 7 identical containers?

A. 5 kg

C. 14 kg

B. 9 kg

D. 12 kg

2) Point  $T$  is between points  $R$  and  $S$ . If  $RT = 5$  and  $TS = 7$ , what is  $RS$ ?

Start: 72 apples

↓  
Divide by 8

↓  
Add 4 each

↓  
Answer: ?

3)

A farmer has 72 apples. He puts them equally into 8 baskets. Then he adds 4 apples to each basket. How many apples are in each basket now?

A. 12

C. 13

B. 14

D. 15



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& answers

4) A pattern starts at 50 and follows the rule “subtract 5.” Which list shows the first four terms?

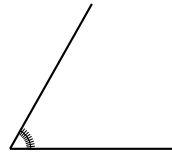
A. 50, 45, 40, 35

C. 50, 45, 40, 30

B. 50, 55, 60, 65

D. 50, 40, 30, 20

5)



The angle spans  $60^\circ$ . How many one-degree angles make this angle?

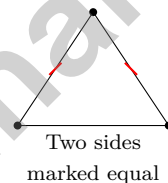
A.  $60^\circ$

C. 60 one-degree angles

B. 30 one-degree angles

D. 120 one-degree angles

6) A triangle has two sides that are equal in length and one side that is different. What is it called?



A. Scalene triangle

C. Equilateral triangle

B. Isosceles triangle

D. Obtuse triangle

7) What is the relationship between a  $90^\circ$  angle and a  $180^\circ$  angle?

A.  $180^\circ$  is 2 times  $90^\circ$

C.  $90^\circ$  is 2 times  $180^\circ$

B.  $180^\circ$  is 3 times  $90^\circ$

D. They are equal



## 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 C is correct.** (KY.4.G.1) The letter  $R$  has a curved bump on top and one slanted leg sticking out. These don't balance on either side, so no fold line creates matching halves. The answer is It has no line of symmetry.
- The correct answer is 2.** (KY.4.MD.5) An angle is formed by **2** rays.
- Choice D is correct.** (KY.4.NBT.6) Two steps! Step 1: find the total cookies. 6 batches  $\times$  25 = 150 cookies. Step 2: pack into boxes of 8:  $150 \div 8 = 18$  remainder 6. The remainder isn't enough to fill another box, so they fill **18** complete boxes.
- Choice B is correct.** (KY.4.MD.7) The diagram shows the angle divided into two equal parts by a ray. Add them:  $42^\circ + 42^\circ = 84^\circ$ .
- Choice D is correct.** (KY.4.NBT.1) The ten-thousands digit is 2. Value:  $2 \times 10,000 = 20,000$  ✓
- The correct answer is 75.** (KY.4.MD.2) Each toy costs \$15. Maya buys 5 toys. Multiply:  $15 \times 5 = 75$  dollars. She spends **75** dollars.
- Choice D is correct.** (KY.4.NBT.4) Add from right to left: ones  $4 + 5 = 9$ , tens  $3 + 4 = 7$ , hundreds  $2 + 1 = 3$ , thousands  $5 + 2 = 7$ . The sum is **7,379**.
- Choice C is correct.** (KY.4.NF.3) Start at 0 and make three jumps of  $\frac{1}{4}$  each. After three jumps:  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$ .
- Choice B is correct.** (KY.4.NF.5) Seven tenths equals:  $\frac{7}{10} = \frac{70}{100} = 0.70 = 0.7$ .
- Choice C is correct.** (KY.4.MD.4) Add up all the X marks:  $2 + 3 + 1 = 6$  strings in total.
- Choice A is correct.** (KY.4.NF.5) This number line zooms in from 0.30 to 0.40, counting by hundredths. The dot lands on 0.38.
- Choice C is correct.** (KY.4.NBT.6) Divide:  $7 \div 9 = 0$  r7, bring down the 6 to get  $76 \div 9 = 8$  r4, bring down the 2 to get  $42 \div 9 = 4$  r6. The remainder is **6**.
- Choice C is correct.** (KY.4.G.2) A right triangle is identified by its one right angle, which measures exactly 90 degrees. The other two angles must be acute. The answer is **C**.
- The correct answer is B, C.** (KY.4.NF.4) First calculate:  $3 \times \frac{2}{4} = \frac{3 \times 2}{4} = \frac{6}{4} = \frac{3}{2}$ . B shows three bars with two-fourths shaded in each =  $\frac{3}{2}$  ✓. C shows three bars with one-half shaded in each; since  $\frac{2}{4} = \frac{1}{2}$ , this also equals  $\frac{3}{2}$  ✓. A has only one bar, D shows full bars, E shows six bars. The answers are **B** and **C**.
- Choice B is correct.** (KY.4.NF.3) Kai has  $\frac{5}{8}$  shown in the pink bar. She gives away  $\frac{2}{8}$ . Subtract:  $5 - 2 = 3$  eighths remain. Answer:  $\frac{3}{8}$ .
- The correct answer is  $\frac{4}{8}$ .** (KY.4.NF.3) We need numerators to sum to 6. We have 2, so the missing piece is  $6 - 2 = 4$  eighths:  $\frac{4}{8}$  ✓.
- Choice C is correct.** (KY.4.G.1) A ray always starts at a specific point — in this case  $G$  — and stretches on and on forever in one direction, passing through  $H$  along the way.
- Choice C is correct.** (KY.4.NF.4) Let's check: A:  $1 \times \frac{1}{8} = \frac{1}{8}$  ✓. B:  $4 \times \frac{1}{6} = \frac{4}{6}$  ✓. C:  $5 \times \frac{1}{5} = \frac{5}{5} = 1$ , not  $\frac{5}{10}$  —incorrect! D:  $2 \times \frac{1}{3} = \frac{2}{3}$  ✓.
- Choice A is correct.** (KY.4.NF.3) The paint can started full and some was used. Subtract what remains from the starting amount:  $6\frac{2}{3} - 2\frac{1}{3} = 4\frac{1}{3}$  quarts of paint was used.
- Choice B is correct.** (KY.4.NF.4) Emma has 3 stickers, and each weighs  $\frac{1}{5}$  ounce. We multiply:  $3 \times \frac{1}{5} = \frac{3}{5}$  ounce.
- Choice D is correct.** (KY.4.NBT.1) Subtract 10 each time: 100, 90, 80, 70, 60, **50**. The 6th term is **50**.
- Choice D is correct.** (KY.4.OA.2) Two steps! Step 1: Grandma gave Lily  $4 \times 3 = 12$  more sheets. Step 2: Add what Lily already had:  $3 + 12 = 15$  sheets in all.
- Choice D is correct.** (KY.4.NBT.1) Mason's thousands cards are worth  $8 \times 1,000 = 8,000$ ; tens cards are worth  $8 \times 10 = 80$ . The ratio is  $8,000 \div 80 = 100$  times. ✓
- Choice C is correct.** (KY.4.OA.1) When you see "times as many," think *multiplication*! "6 times as many as 4" becomes  $6 \times 4$ , which equals 24. So choice C,  $24 = 6 \times 4$ , is the equation that captures that idea.
- Choice D is correct.** (KY.4.NBT.1) Factors are numbers that divide evenly with no remainder. Walk through the factor pairs:  $1 \times 12$ ,  $2 \times 6$ ,  $3 \times 4$ . Listing every factor: 1, 2, 3, 4, 6, 12. *Tip*: pair them up as you go—it makes sure you don't miss any!



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## Hi, Math Athlete!

◇ 7 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

### Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trainer

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## 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.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4)

for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included