

5 Kentucky KSA

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, Kentucky Math Explorer!

Five steady rounds on the Bluegrass State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.

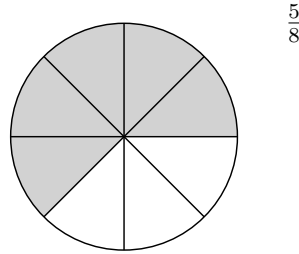


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- 1) On a pie chart divided into 8 equal slices, how many slices represent $\frac{5}{8}$ of the pie?



- A. 2 slices C. 5 slices
 B. 3 slices D. 8 slices
- 2) How many 90° angles can fit around a point without overlapping?
- A. 2 C. 4
 B. 3 D. 5
- 3) A van can carry 8 students. If there are 360 students going on a field trip, how many vans are needed?

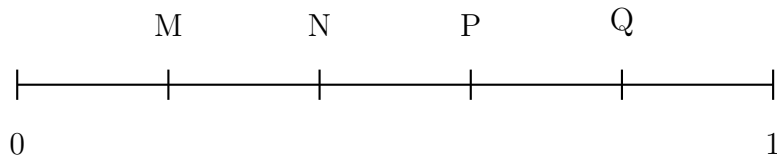
360 students	
÷8 students per van	
Van 1	Van 2
Total: ? vans	

- A. 45 C. 48
 B. 42 D. 40



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4) Which letter shows the location of 0.8 on the number line?



A. At M

C. At P

B. At N

D. At Q

5) Which area model correctly shows 31×17 ?

A.

30	1
10	7

B.

30	1
10	8

C.

30	7
1	10

D.

30	1
10	6



1) A student drew an angle and measured it. She read 115 degrees on the outer scale. Is this reasonable?

- A. No, because 115 is less than 90 degrees
- B. Yes, because 115 is between 90 and 180 degrees
- C. No, because you cannot measure angles larger than 100 degrees
- D. Yes, only if the angle opens to the left

2) Round 5,196 to the nearest ten.

- A. 5,190
- B. 5,100
- C. 5,196
- D. 5,200

3) Which number sentence is true?

- A. $2 \times \frac{1}{5} = \frac{1}{10}$
- B. $3 \times \frac{1}{5} = \frac{3}{5}$
- C. $4 \times \frac{1}{5} = \frac{4}{20}$
- D. $5 \times \frac{1}{5} = \frac{1}{5}$

4) What is $\frac{6}{10} - \frac{1}{10}$?

- A. $\frac{5}{10}$
- B. $\frac{7}{10}$
- C. $\frac{5}{20}$
- D. $\frac{1}{10}$

5) A soccer field is 100 yards long. How many feet is this?

- A. 33
- B. 100
- C. 300
- D. 1,000



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6) A piece of string weighs $\frac{3}{5}$ ounce. What is the weight of 4 pieces?

- A. $\frac{3}{20}$ ounce
 B. $\frac{12}{5}$ ounces

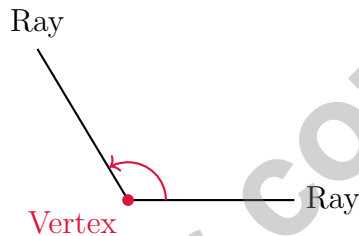
- C. $\frac{7}{5}$ ounces
 D. $\frac{4}{5}$ ounce

7) Which phrase names the value of the decimal 0.35?

- A. Thirty-five hundredths
 B. Thirty-five wholes

- C. Thirty-five tenths
 D. Three and five hundredths

8) Look at this angle:



What type of angle is shown?

- A. An acute angle
 B. A right angle

- C. An obtuse angle
 D. A straight angle

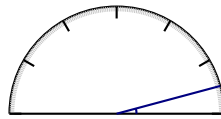
9) Mia has $4\frac{2}{3}$ hours to complete a project. She spends $2\frac{1}{3}$ hours on the first part. How much time remains for the rest?

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

- C. $6\frac{3}{3}$
 D. $2\frac{2}{3}$



1)



What is the measure of this very small acute angle?

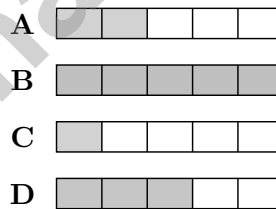
- A. 10 degrees
- B. 15 degrees
- C. 20 degrees
- D. 25 degrees

2) Which digit is in the hundreds place of the number shown in the chart?

Thousands	Hundreds	Tens	Ones
1	8	6	2

- A. 1
- B. 2
- C. 6
- D. 8

3) Which fraction bar correctly shows $2 \times \frac{1}{5}$?

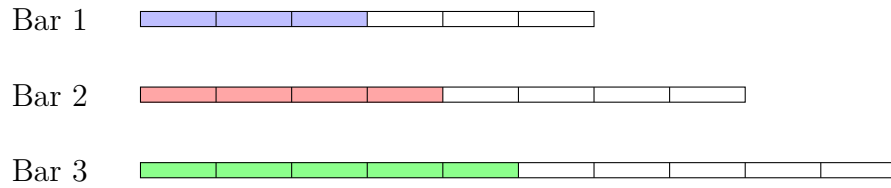


- A. Picture A
- B. Picture B
- C. Picture C
- D. Picture D



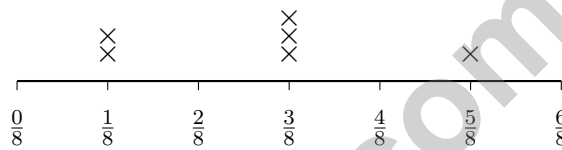
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4) Look at the three fraction bars. Which shows the greatest fraction?



- A. Bar 1: $\frac{3}{6}$ C. Bar 3: $\frac{5}{10}$
 B. Bar 2: $\frac{4}{8}$ D. All are equal

5) Here is a line plot with eighths:



How many X marks appear above the value $\frac{3}{8}$?

- A. 1 C. 3
 B. 2 D. 4
- 6) What is 19×22 ?
- A. 418 C. 392
 B. 380 D. 456

7) Noah had $\frac{6}{12}$ of a pizza. He ate $\frac{2}{12}$. How much pizza is left?

- A. $\frac{8}{12}$ C. $\frac{1}{12}$
 B. $\frac{4}{12}$ D. $\frac{12}{12}$

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

- 1) **Choice C is correct.** (KY.4.NF.4) The circle is divided into 8 equal slices. The fraction $\frac{5}{8}$ means 5 of those slices are shaded. So there are **5** slices.
- 2) **Choice C is correct.** (KY.4.MD.5) Divide the full circle by the angle size: $360^\circ \div 90^\circ = 4$ right angles fit exactly around.
- 3) **Choice A is correct.** (KY.4.NBT.6) Ask: $8 \times ? = 360$. Since $8 \times 45 = 360$, we need **45** vans for all the students.
- 4) **Choice D is correct.** (KY.4.NF.5) The number line marks tenths: 0.2, 0.4, 0.6, 0.8. The decimal 0.8 lands on the fourth mark, which is at position Q.
- 5) **Choice A is correct.** (KY.4.NBT.5) An area model splits $31 = 30 + 1$ and $17 = 10 + 7$. Choice A shows these decompositions correctly.
- 6) **Choice B is correct.** (KY.4.MD.5) In $\angle ABC$, point B is the vertex because it's the middle letter.
- 7) **Choice D is correct.** (KY.4.NBT.1) The word "add 7" tells us the rule. Check: $14 - 7 = 7$, $21 - 14 = 7$. Each increases by 7 (multiples of 7). ✓
- 8) **Choice A is correct.** (KY.4.NF.3) Option A shows two decompositions: $\frac{2}{10} + \frac{6}{10}$ and $\frac{4}{10} + \frac{4}{10}$. Check: $2 + 6 = 8$ and $4 + 4 = 8$. Both equal $\frac{8}{10}$. ✓
- 9) **Choice C is correct.** (KY.4.G.1) A circle is super special! No matter which direction you draw a line through its center, both sides match perfectly. You could draw infinitely many such lines, so a circle has infinitely many lines of symmetry.
- 10) **Choice D is correct.** (KY.4.NBT.3) We're rounding to the nearest hundred. Look at the tens digit: 6. Since $6 \geq 5$, we round UP! The hundreds digit changes from 6 to 7, so the answer is **33,700**. ✓
- 11) **Choice D is correct.** (KY.4.NBT.1) Test the small primes: 43 is odd; $4 + 3 = 7$ (not $\div 3$); doesn't end in 0 or 5; $7 \times 6 = 42$, $7 \times 7 = 49$, no 7. So 43's only factors are 1 and 43—**prime**.
- 12) **Choice D is correct.** (KY.4.MD.3) Fencing needed = $2(8) + 2(4) = 16 + 8 = 24$ ft.
- 13) **Choice D is correct.** (KY.4.NBT.4) Round each number to the nearest thousand: $26,345 \approx 26,000$ and $8,912 \approx 9,000$. Subtract: $26,000 - 9,000 = 17,000$.
- 14) **Choice B is correct.** (KY.4.MD.7) The diagram shows two angles meeting at one vertex. Add them together: $28^\circ + 47^\circ = 75^\circ$.
- 15) **Choice A is correct.** (KY.4.NF.3) Two class projects use poster board. Add the amounts: $\frac{7}{8} + \frac{3}{8} = \frac{10}{8}$ sheets of poster board used total.
- 16) **Choice D is correct.** (KY.4.NBT.1) Thousands and hundreds match. Compare the tens place: $2 < 5$, so $3,425 < 3,450$. ✓
- 17) **The correct answer is A, B.** (KY.4.NBT.1) A is true: thousands (1,000) \div hundreds (100) = 10. B is true: hundreds (100) \div tens (10) = 10. C, D, E are false. Answer: A and B. ✓
- 18) **Choice A is correct.** (KY.4.NF.4) Sophia completes 5 laps, each $\frac{1}{4}$ mile long. She runs $5 \times \frac{1}{4} = \frac{5}{4}$ miles total.
- 19) **The correct answer is 112.** (KY.4.MD.1) Since 1 pound = 16 ounces, multiply: $7 \times 16 = 112$ ounces.
- 20) **The correct answer is 45.** (KY.4.G.1) Subtract to find how much less: $90 - 45 = 45$.
- 21) **Choice C is correct.** (KY.4.NF.5) The correct equivalence is $\frac{6}{10} = \frac{60}{100} = 0.6$. The option 0.06 is actually $\frac{6}{100}$, which is much smaller.
- 22) **Choice C is correct.** (KY.4.NF.1) Equivalent fractions in disguise: $\frac{1}{5} = \frac{2}{10}$. Both ate the same amount of pizza.
- 23) **Choice C is correct.** (KY.4.MD.5) A full turn all the way around a point is 360° , made of **360** one-degree angles.
- 24) **Choice C is correct.** (KY.4.NF.5) Order by time: $0.44 < 0.47 < 0.74$. Smaller time means faster! Casey's 0.44 seconds is the fastest.
- 25) **Choice C is correct.** (KY.4.MD.2) Each carton holds 3 liters. For 9 cartons, multiply: $3 \times 9 = 27$ liters. There are **27** liters of juice.
- 26) **Choice A is correct.** (KY.4.MD.6) At 88° , this angle is just shy of a right angle but still less than 90° . Any angle less than 90° is acute, no matter how close to 90° it gets. The answer is acute.
- 27) **Choice A is correct.** (KY.4.MD.4) Count the heights: $\frac{1}{4}$ in appears 3 times (the model!), $\frac{2}{4}$ in appears 2 times, and $\frac{3}{4}$ in appears 1 time. So $\frac{1}{4}$ in is most common.



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Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

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

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

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.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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



5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+