

3

Kansas

KAP

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

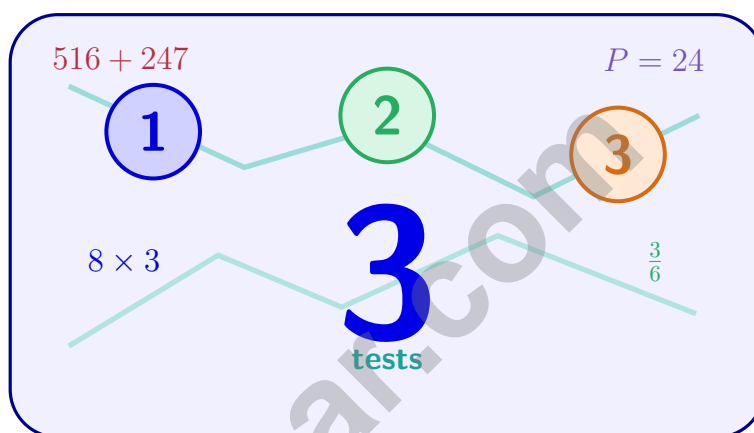
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Kansas KAP Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Kansas KAP 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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Welcome, Kansas Math Explorer!

Three steady rounds on the Sunflower State math route

This book gives you three full Grade 3 practice tests for KAP. Each round uses wide skies, sunflower rows, and careful place-value checks to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Kansas 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 Kansas KAP 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 Sunflower 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?

Three tests, 90 questions, and a full KAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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- 5) A school fundraiser collected \$17,890. Rounded to the nearest thousand dollars, about how much was collected?

- 6) The space outside an angle is called:

- A. the interior C. the vertex
 B. the exterior D. a side

- 7) A rectangle has a width of 4 inches. The perimeter is 28 inches. What is the length?

- A. 6 in C. 10 in
 B. 8 in D. 12 in

- 8) Three equal angles fit perfectly around a full circle, with none left over. What is the measure of each angle?

- A. 90° C. 135°
 B. 120° D. 180°

- 9) Compare two multiples: Is $6 \times \frac{1}{10}$ greater than, less than, or equal to $\frac{6}{10}$?

- A. Greater than C. Equal to
 B. Less than D. Cannot compare



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- 10) Order these fractions from least to greatest: $\frac{1}{6}$, $\frac{5}{12}$, $\frac{1}{2}$.
- A. $\frac{1}{2}$, $\frac{5}{12}$, $\frac{1}{6}$ C. $\frac{5}{12}$, $\frac{1}{6}$, $\frac{1}{2}$
- B. $\frac{1}{6}$, $\frac{5}{12}$, $\frac{1}{2}$ D. $\frac{1}{2}$, $\frac{1}{6}$, $\frac{5}{12}$
- 11) Which of the following is a prime number?
- A. 9 C. 17
- B. 15 D. 21
- 12) Which of these letters does **not** have a line of symmetry?
- A. *M* C. *T*
- B. *O* D. *Z*
- 13) If you multiply the numerator and denominator of $\frac{2}{5}$ by 3, what fraction do you get?
- A. $\frac{5}{8}$ C. $\frac{5}{15}$
- B. $\frac{6}{8}$ D. $\frac{6}{15}$
- 14) What is 73,546 written in word form?
- A. Seventy-three thousand, fifty-six C. Seven hundred thirty-five thousand, forty-six
- B. Seven thousand, three hundred forty-six D. Seventy-three thousand, five hundred forty-six
- 15) Which two expressions equal 1 whole?
- A. $\frac{6}{8} + \frac{2}{8}$
- B. $\frac{4}{5} + \frac{2}{5}$
- C. $\frac{3}{8} + \frac{4}{8}$
- D. $\frac{5}{6} + \frac{1}{6}$
- E. $\frac{3}{4} + \frac{2}{4}$



1) Which number is NOT divisible by 2?

A. 24

C. 49

B. 36

D. 50

2) Which shows the same value in all three forms?

A. $\frac{8}{10}$, 0.8, 0.08

C. $\frac{8}{100}$, 0.8, 8 hundredths

B. $\frac{80}{100}$, 0.8, 0.80

D. $\frac{8}{10}$, 0.10, $\frac{80}{100}$

3) If you have 8 copies of $\frac{1}{12}$, what fraction do you have?

A. $\frac{8}{12}$

C. $\frac{12}{8}$

B. $\frac{1}{96}$

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

4) A rectangular poster is 12 inches long and 8 inches wide. How much paper does it cover (what is its area)?



5) Convert $4\frac{2}{3}$ to an improper fraction.

A. $\frac{14}{3}$

C. $\frac{10}{3}$

B. $\frac{12}{3}$

D. $\frac{15}{3}$



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6) A school gym has 14 benches. Each bench seats 35 people. How many people can sit on all the benches?

- A. 490 people C. 560 people
 B. 420 people D. 630 people

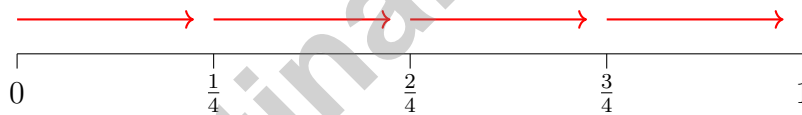
7) An error analysis: A student added $\frac{2}{4} + \frac{3}{4}$ and got $\frac{5}{8}$. What did the student do wrong?

- A. Added the denominators instead of keeping them the same. C. Forgot to simplify.
 B. Subtracted instead of added. D. Used the wrong denominator in the answer.

8) Order from greatest to least: 0.35, 0.53, 0.33, 0.55.

- A. 0.55, 0.53, 0.35, 0.33 C. 0.35, 0.33, 0.53, 0.55
 B. 0.53, 0.55, 0.33, 0.35 D. 0.55, 0.35, 0.53, 0.33

9) A number line shows equal jumps. Use it to find how many $\frac{1}{4}$ are in $\frac{4}{4}$.



- A. 1 C. 3
 B. 2 D. 4

10) Which statement is true?

- A. Parallel lines always meet at right angles C. Parallel lines are the same as perpendicular lines
 B. Perpendicular lines meet at right angles D. Perpendicular lines never meet



1) Keisha ran $\frac{5}{6}$ lap, Liam ran $\frac{3}{4}$ lap, and Mila ran $\frac{4}{5}$ lap. Who ran the shortest distance?

2) A builder has 100 meters of fencing. He uses 35 meters for one garden and 28 meters for another. How much fencing is left?

A. 28 m

C. 63 m

B. 37 m

D. 65 m

3) A pitcher holds 64 fluid ounces. How many pints is this?

A. 2

C. 8

B. 4

D. 16

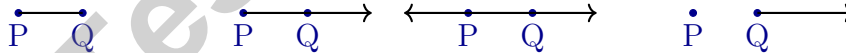
4) Which diagram shows Ray PQ ?

A.

B.

C.

D.



A. Diagram A

C. Diagram C

B. Diagram B

D. Diagram D



- 5) What is the sum of the following unit fractions: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$?
- A. $\frac{4}{4}$ C. $\frac{1}{4}$
 B. $\frac{4}{16}$ D. $\frac{1}{16}$
- 6) A class recorded toy block heights in fourths of an inch: $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}, \frac{1}{4}$. When plotted, what is the mode (most common measurement)?
- A. $\frac{1}{4}$ in C. $\frac{3}{4}$ in
 B. $\frac{2}{4}$ in D. 1 in
- 7) Which subtraction requires regrouping across a zero?
- A. $5,234 - 2,102$ C. $4,567 - 1,123$
 B. $6,007 - 3,256$ D. $8,432 - 5,321$
- 8) Noah walks $\frac{2}{8}$ mile each day. How far does he walk in 4 days?
- A. $\frac{8}{8}$ mile or 1 mile C. $\frac{6}{8}$ mile
 B. $\frac{2}{32}$ mile D. $\frac{4}{8}$ mile
- 9) $\frac{8}{12} = \frac{5}{12} + \underline{\hspace{1cm}}$. The missing fraction is:
- A. $\frac{1}{12}$ C. $\frac{3}{12}$
 B. $\frac{2}{12}$ D. $\frac{4}{12}$
- 10) A soccer team won some games. Another team won 4 times as many games, and that team won 32 games. How many games did the first team win?
- A. 4 C. 28
 B. 36 D. 8



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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 B is correct.** (4.NF.4) Doubling a recipe means we multiply by 2. We get $2 \times \frac{3}{5} = \frac{6}{5}$ cups of milk.
- Choice B is correct.** (4.G.2) Right angle markers are shown at two of the corners of the figure. These markers indicate that those two angles measure 90 degrees. The answer is **B**.
- Choice B is correct.** (4.MD.2) The picture shows three \$5 bills. Multiply: $3 \times 5 = 15$ dollars. The total is \$15.
- Choice A is correct.** (4.G.1) Perpendicular lines cross at a right angle — exactly 90° — and you can spot them by the tiny square symbol at the corner. Diagram A shows this perfect corner square.
- The correct answer is 18,000.** (4.NBT.3) We're rounding to the nearest thousand dollars. Look at the hundreds digit: $8 \geq 5$, so round UP from \$17,000 to \$18,000 collected. ✓
- Choice B is correct.** (4.G.1) The exterior of an angle is all the space outside the angle.
- Choice C is correct.** (4.MD.3) Use $P = 2\ell + 2w = 28$ with $w = 4$: $2\ell + 2(4) = 28$. Solve: $2\ell + 8 = 28$, so $2\ell = 20$, thus $\ell = 10$ in.
- Choice B is correct.** (4.G.1) If three equal angles divide a circle: $360^\circ \div 3 = 120^\circ$ per angle.
- Choice C is correct.** (4.NF.4) $6 \times \frac{1}{10} = \frac{6}{10}$, so they're exactly equal!
- Choice B is correct.** (4.NF.1) Convert to twelfths: $\frac{1}{6} = \frac{2}{12}$, $\frac{5}{12} = \frac{5}{12}$, $\frac{1}{2} = \frac{6}{12}$. Since $2 < 5 < 6$, the order is $\frac{1}{6}, \frac{5}{12}, \frac{1}{2}$.
- Choice C is correct.** (4.OA.4) A *prime* number has exactly two factors: 1 and itself. Try dividing 17: it doesn't divide evenly by 2, 3, 4, or 5, so its only factors are 1 and 17—prime! The others are *composite*: $9 = 3 \times 3$; $15 = 3 \times 5$; $21 = 3 \times 7$.
- Choice D is correct.** (4.G.3) The letter Z slants in one direction only. If you fold it any way—up and down, left and right, or diagonally—the halves don't match. The answer is letter **Z**.
- Choice D is correct.** (4.NF.1) Multiply both top and bottom by 3: $\frac{2}{5} = \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$.
- Choice D is correct.** (4.NBT.2) Breaking it: 73 thousands (“seventy-three thousand”) and 546 ones (“five hundred forty-six”) ✓
- The correct answer is A, D.** (4.NF.3) A: $6 + 2 = 8$ eighths = 1 whole ✓. D: $5 + 1 = 6$ sixths = 1 whole ✓. B: $\frac{6}{5}$ (more than 1). C: $\frac{7}{8}$ (less than 1). E: $\frac{5}{4}$ (more than 1).
- Choice D is correct.** (4.OA.2) “2 times as many” tells us to multiply: $2 \times 40 = 80$ cookies today.
- Choice A is correct.** (4.NF.3) The baker needs more milk than what's on hand. Convert the mixed number: $1\frac{1}{3} = \frac{4}{3}$. Then subtract: $\frac{4}{3} - \frac{2}{3} = \frac{2}{3}$ cups of milk needed.
- Choice D is correct.** (4.NBT.1) The ray falls between the 60° and 70° marks, right in the middle of that range. At 65° , this acute angle is a good estimate for the angle shown. The answer is **65** degrees.
- Choice C is correct.** (4.OA.4) Count stars: Figure 1 has 1, Figure 2 has 3, Figure 3 has 6. The increases are +2, then +3. Following the pattern, the next increase is +4: $6 + 4 = 10$ stars.
- Choice C is correct.** (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.** (4.MD.3) The compass turns twice in the same direction. Add them: $78^\circ + 42^\circ = 120^\circ$.
- Choice A is correct.** (4.NF.4) We need to add 5 unit fractions of $\frac{1}{6}$ each. This means $5 \times \frac{1}{6} = \frac{5}{6}$.
- Choice A is correct.** (4.NBT.4) The first step is to add the ones place: $6 + 9 = 15$. We write 5 and carry 1 to the tens place. This is $6 + 9 = 15$ (write 5, carry 1).
- Choice A is correct.** (4.NF.3) One whole ($\frac{4}{4}$) as unit fractions means four pieces of $\frac{1}{4}$: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$ ✓.
- The correct answer is $\frac{3}{8}$.** (4.MD.4) The shortest jump is $\frac{2}{8}$ ft and the longest is $\frac{5}{8}$ ft. The difference is $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$ foot.
- Choice C is correct.** (4.NF.5) The dot is at the third mark out of 10 equal marks, so it shows $\frac{3}{10}$.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: total flowers after planting more: $200 + 40 = 240$. Step 2: divide equally into 8 sections: $240 \div 8 = 30$ flowers per section.
- The correct answer is 27.** (4.MD.1) Since 1 yard = 3 feet, multiply: $9 \times 3 = 27$ feet.



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Hi, Strong Climber!

◇ You climbed all 3 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

PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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.



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 & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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