

# 7

# Kansas

## KAP

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

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

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

# 7 Kansas KAP Grade 4 Math Practice Tests

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



Seven complete 30-question Grade 4 practice rounds for KAP, built around wide skies, sunflower rows, and careful place-value checks, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Kansas Math Explorer!

Seven steady rounds on the Sunflower State math route

This book gives you seven full Grade 4 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?

Seven tests, 210 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 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.



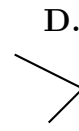
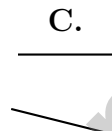
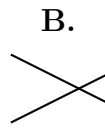
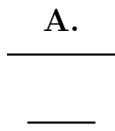
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& answers

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1) In the number 4,726, what is the value of the digit 7?

2) Which diagram shows two parallel lines?



A. Diagram A

B. Diagram B

C. Diagram C

D. Diagram D

3) Add  $2\frac{3}{8} + 1\frac{4}{8}$ .

4) Which equation does NOT show a multiplicative comparison?

A.  $18 = 3 \times 6$

B.  $18 = 12 + 6$

C.  $20 = 4 \times 5$

D.  $35 = 5 \times 7$



5) Aisha has 5 pet fish. Kai has 4 times as many fish as Aisha. How many fish does Kai have?

A. 9

C. 25

B. 15

D. 20

6) Write 52,047 in expanded form.

A.  $50,000 + 2,000 + 400 + 7$

C.  $50,000 + 20,000 + 40 + 7$

B.  $50,000 + 2,000 + 4 + 7$

D.  $50,000 + 2,000 + 40 + 7$

7) A gear rotates  $\frac{7}{12}$  of a full turn, then rotates an additional  $\frac{1}{12}$  turn. What is the total rotation in degrees?

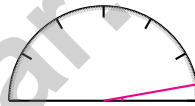
A.  $180^\circ$

C.  $240^\circ$

B.  $210^\circ$

D.  $270^\circ$

8)



Mia measures a very small angle. Which of these is most likely the degree measure?

A. 45 degrees

C. 10 degrees

B. 100 degrees

D. 175 degrees

9) Two groups of students measured rope lengths. Group A:  $\frac{1}{4}$  in,  $\frac{1}{4}$  in,  $\frac{2}{4}$  in. Group B:  $\frac{2}{4}$  in,  $\frac{2}{4}$  in,  $\frac{3}{4}$  in. Which group has the longer total rope length?

A. Group A

C. Both groups are equal

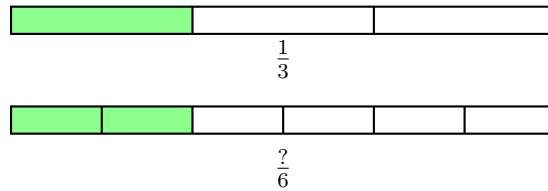
B. Group B

D. Cannot determine



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10) Look at the two fraction bars. Both bars are the same length.



What number should replace the question mark?

- A. 1                                       C. 3  
 B. 4                                       D. 2
- 11) A pie is cut into slices. One slice represents an angle of  $40^\circ$  and another slice represents an angle of  $60^\circ$ . If these two slices are placed together, what angle do they form?
- A.  $20^\circ$                                        C.  $100^\circ$   
 B.  $60^\circ$                                        D.  $200^\circ$
- 12) A recipe needs  $\frac{2}{3}$  cup of flour. How can we write this as a sum of unit fractions?
- A.  $\frac{1}{3} + \frac{1}{3}$                                        C.  $\frac{2}{3} + \frac{1}{3}$   
 B.  $\frac{1}{2} + \frac{1}{2}$                                        D.  $\frac{1}{6} + \frac{1}{6}$
- 13) Jackson has  $3\frac{5}{6}$  cups of juice. He drinks  $2\frac{2}{6}$  cups. How much juice remains?
- A.  $1\frac{3}{6}$      C.  $5\frac{7}{6}$   
 B.  $1\frac{2}{6}$      D.  $2\frac{3}{6}$





4) A straight angle measures:

- A. Less than  $90^\circ$ 
 C. Between  $90^\circ$  and  $180^\circ$   
 B. Exactly  $90^\circ$ 
 D. Exactly  $180^\circ$

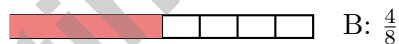
5) Which subtraction is correct?

- A.  $7,123 - 2,456 = 4,667$ 
 C.  $7,123 - 2,456 = 5,567$   
 B.  $7,123 - 2,456 = 5,667$ 
 D.  $7,123 - 2,456 = 5,777$

6) Rename  $5 \times \frac{1}{4}$  as a mixed number.

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

7) Which fraction is equivalent to  $\frac{1}{2}$ ?



- A.  $\frac{2}{6}$  is equivalent to  $\frac{1}{2}$ 
 C. Both fractions are equivalent to  $\frac{1}{2}$   
 B.  $\frac{4}{8}$  is equivalent to  $\frac{1}{2}$ 
 D. Neither fraction is equivalent to  $\frac{1}{2}$

8) Diego used  $\frac{9}{10}$  of his water supply. He used  $\frac{6}{10}$  on the hike and  $\frac{3}{10}$  at camp. Which shows this decomposition?

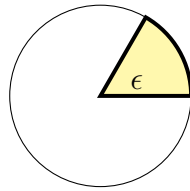
- A.  $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ 
 C.  $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$   
 B.  $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$ 
 D.  $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$



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1) A sewing project requires  $5\frac{2}{8}$  yards of fabric. The first part uses  $3\frac{1}{8}$  yards. How much fabric is left for the remaining parts?

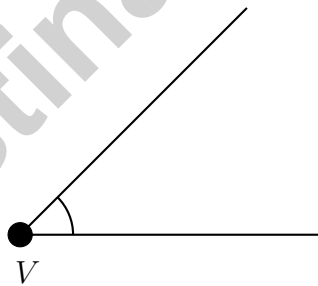
- A.  $2\frac{1}{8}$ 
 C.  $8\frac{3}{8}$   
 B.  $2\frac{3}{8}$ 
 D.  $2\frac{2}{8}$



2)

The shaded sector shown measures  $60^\circ$ . How many sectors like this fit around the entire circle?

- A. 4
  C. 8  
 B. 6
  D. 12



3)

What is labeled with the letter  $V$  in the diagram above?

- A. A ray
  C. The arc  
 B. The vertex
  D. A side





## 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

- The correct answer is 700.** **(4.NBT.1)** In 4,726, the digit 7 is in the hundreds place. Its value is  $7 \times 100 = 700$ . ✓
- Choice A is correct.** **(4.G.1)** Parallel lines are like train tracks — they go the same direction and never bump into each other. The matching tick marks on Diagram A confirm these lines stay the same distance apart forever.
- The correct answer is  $3\frac{7}{8}$ .** **(4.NF.3)** Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ . The sum is  $3\frac{7}{8}$ . Since the fractions add to less than a whole, no regrouping is needed.
- Choice B is correct.** **(4.OA.1)** Multiplicative comparisons use the symbol  $\times$  (or words like “times as many”). Choices A, C, and D all use  $\times$ . Choice B uses  $+$ , which is an *additive* comparison—not multiplicative.
- Choice D is correct.** **(4.OA.2)** “4 times as many” is a multiplication signal. Kai has 4 groups of Aisha’s 5 fish:  $4 \times 5 = 20$  fish.
- Choice D is correct.** **(4.NBT.2)** Ten-thousands:  $5 \rightarrow 50,000$ ; thousands:  $2 \rightarrow 2,000$ ; tens:  $4 \rightarrow 40$ ; ones:  $7 \rightarrow 7$  ✓
- Choice C is correct.** **(4.G.1)**  $\frac{7}{12} + \frac{1}{12} = \frac{8}{12} = \frac{2}{3}$  of a full turn.  $\frac{2}{3} \times 360^\circ = 240^\circ$ .
- Choice C is correct.** **(4.NBT.1)** A very small angle is acute, opening just a tiny amount from the baseline.  $10^\circ$  is very close to  $0^\circ$  and matches this narrow angle perfectly. The other choices open much wider. The answer is **10** degrees.
- Choice B is correct.** **(4.MD.4)** Group A total:  $\frac{1}{4} + \frac{1}{4} + \frac{2}{4} = \frac{4}{4} = 1$  in. Group B total:  $\frac{2}{4} + \frac{2}{4} + \frac{3}{4} = \frac{7}{4}$  in. Group B has a longer total length.
- Choice D is correct.** **(4.NF.1)** Both bars show the same shaded length. The denominator goes from 3 to 6 (multiply by 2), so the numerator also goes from 1 to 2:  $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ .
- Choice C is correct.** **(4.MD.3)** When pie slices are combined, their angles add up:  $40^\circ + 60^\circ = 100^\circ$ .
- Choice A is correct.** **(4.NF.3)** The recipe needs  $\frac{2}{3}$  cup of flour. This is 2 equal pieces, each  $\frac{1}{3}$  cup. So  $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ .
- Choice A is correct.** **(4.NF.3)** Jackson starts with juice and drinks some. Subtract the amount he drinks:  $3\frac{5}{6} - 2\frac{2}{6} = 1\frac{3}{6}$  cups of juice remain.
- The correct answer is A, C.** **(4.NF.4)** A:  $4 \times \frac{3}{5} = \frac{4 \times 3}{5} = \frac{12}{5}$  ✓. C:  $3 \times \frac{4}{5} = \frac{3 \times 4}{5} = \frac{12}{5}$  ✓. B:  $6 \times \frac{2}{3} = \frac{12}{3} = 4$  (not  $\frac{12}{5}$ ). D:  $2 \times \frac{1}{5} = \frac{2}{5}$  (not  $\frac{12}{5}$ ). E:  $3 \times \frac{2}{5} = \frac{6}{5}$  (not  $\frac{12}{5}$ ). The answers are **A** and **C**.
- Choice A is correct.** **(4.NF.4)** With 3 bars and each showing  $\frac{2}{4}$  shaded, we have  $3 \times \frac{2}{4} = \frac{6}{4} = 1\frac{1}{2}$  shaded in total.
- Choice A is correct.** **(4.NBT.3)** We’re rounding to the nearest hundred. Look at the tens digit: 2. Since  $2 < 5$ , we round DOWN. The hundreds digit stays at 6, so Ava read about **4,600** pages. ✓
- Choice B is correct.** **(4.NF.5)** When you see 0.23, you’re looking at twenty-three hundredths:  $0.23 = \frac{23}{100}$ .
- Choice B is correct.** **(4.G.2)** Shape 2 has exactly one pair of parallel sides marked by red arrows, which defines a trapezoid. Shape 1 shows two pairs of parallel sides (blue and blue), making it a parallelogram. The answer is **B**.
- Choice A is correct.** **(4.MD.2)** Flour weighs 32 ounces and sugar weighs 25 ounces. Subtract to find the difference:  $32 - 25 = 7$  ounces. The flour weighs **7** ounces more.
- Choice B is correct.** **(4.NF.3)** The recipe calls for  $\frac{1}{2}$  cup of butter plus  $\frac{1}{2}$  cup of sugar. Together:  $1 + 1 = 2$  halves, which equals **1** whole cup.
- The correct answer is 24.** **(4.OA.4)** The  $n$ th multiple of 4 is just  $4 \times n$ . So the sixth multiple is  $4 \times 6 = 24$ . *Skip-count to verify:* 4, 8, 12, 16, 20, 24. ✓
- Choice C is correct.** **(4.OA.4)** Add the two previous terms:  $8 + 13 = 21$ . This is a Fibonacci-like pattern. ✓
- Choice D is correct.** **(4.OA.3)** Two steps! Step 1: cars left after selling:  $200 - 50 = 150$ . Step 2: pack into boxes of 6:  $150 \div 6 = 25$  complete boxes (no remainder).
- Choice C is correct.** **(4.NF.5)** Order by time:  $0.44 < 0.47 < 0.74$ . Smaller time means faster! Casey’s 0.44 seconds is the fastest.
- Choice A is correct.** **(4.G.1)** Since 84 degrees is less than 90 degrees (a right angle), it is acute.
- Choice C is correct.** **(4.NF.4)** Sarah makes 8 equal hops of  $\frac{1}{12}$  each:  $8 \times \frac{1}{12} = \frac{8}{12}$ .
- Choice A is correct.** **(4.G.3)** This trapezoid has two slanted sides of different lengths (legs), making it lopsided. No fold line can create two matching halves. The answer is **0** lines of symmetry.



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## Ahoy, Math Sailor!

◇ You sailed through 7 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 7 practice tests. You will reach safe harbor!

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 Captain

# 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



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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!



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Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included