

# 8

# Kansas KAP

# GRADE 4

# PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Kansas KAP Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Sunflower State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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For more practice  
& answers

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1) Ava wants to convert 5 kilometers to meters. What is the correct answer?

- A. 500  
 B. 5,000

- C. 50,000  
 D. 500,000

2) What is 7,149 rounded to the nearest ten?

- A. 7,100  
 B. 7,000

- C. 7,140  
 D. 7,150

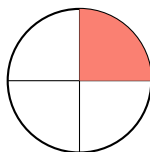
3) An art class has 8 paintbrushes. Another art class has 4 times as many paintbrushes. How many paintbrushes does the other class have?

- A. 12  
 B. 24

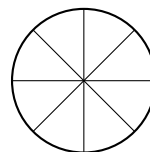
- C. 32  
 D. 40

4) A fan blade rotates  $\frac{7}{12}$  of a full turn. What is the angle measurement in degrees?

5) Two circles are the same size. The first circle shows  $\frac{1}{4}$  shaded. How much of the second circle needs to be shaded to show an equivalent fraction with 8 equal parts?



Circle 1



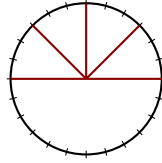
Circle 2

- A. 1 part  
 B. 4 parts

- C. 3 parts  
 D. 2 parts







10)

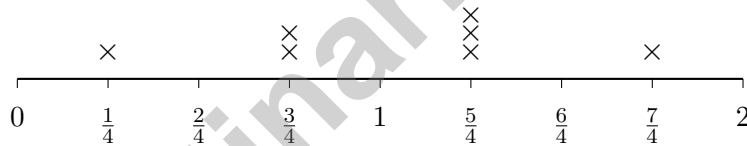
A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

- A.  $90^\circ$ 
 C.  $360^\circ$   
 B.  $180^\circ$ 
 D.  $720^\circ$

11) Subtract:  $6,320 - 1,485 = ?$

- A. 4,835
  C. 4,935  
 B. 5,835
  D. 5,935

12) Here is a line plot with fourths:



Which value has exactly 2 more X marks than  $\frac{1}{4}$ ?

- A.  $\frac{2}{4}$ 
 C.  $\frac{7}{4}$   
 B.  $\frac{5}{4}$ 
 D. 2

13) Noah had  $3\frac{2}{6}$  meters of string. He added  $1\frac{4}{6}$  meters more. How long is the string now?

- A.  $4\frac{1}{6}$  meters
  C. 5 meters  
 B.  $4\frac{5}{6}$  meters
  D.  $5\frac{1}{6}$  meters



- 1) A recipe needs 1 kilogram 200 grams of flour. Ollie measures out 800 grams. How many more grams does he need?
- A. 200 g                       C. 1,000 g  
 B. 400 g                       D. 1,200 g
- 2) Which is a prime number between 20 and 30?
- A. 21                       C. 24  
 B. 22                       D. 29
- 3) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?
- A. 552 widgets                       C. 485 widgets  
 B. 598 widgets                       D. 621 widgets
- 4) A pie chart is divided into 5 equal slices. Each slice is  $\frac{1}{5}$  of the whole. What fraction of the pie is 3 slices?



- A.  $\frac{1}{5}$                        C.  $\frac{5}{3}$   
 B.  $\frac{3}{5}$                        D.  $\frac{3}{15}$



5) How many centimeters are in 3 meters?

A. 30

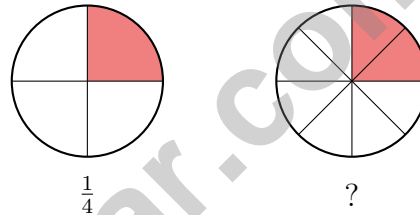
B. 300

C. 3,000

D. 30,000

6) How many sides does an angle have?

7) Look at the two circle models. They are the same size.



Which fraction should replace the question mark?

A.  $\frac{2}{8}$

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

C.  $\frac{4}{8}$

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

8) A candy store has 4 jars of gummies. Each jar holds 32 gummies. They also have 20 loose gummies. If they pack all gummies into bags of 6, how many complete bags can they fill?

A. 23

B. 20

C. 25

D. 24



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1) A juice box contains  $\frac{1}{3}$  liter. How many liters are in 7 juice boxes?

A.  $\frac{1}{21}$  liter

C.  $\frac{7}{21}$  liter

B.  $\frac{7}{3}$  liters (or  $2\frac{1}{3}$  liters)

D.  $\frac{3}{7}$  liter

2) Round 23,562 to the nearest thousand.

A. 23,000

C. 23,600

B. 20,000

D. 24,000

3) Use the place-value chart to find the correct expansion of 214,537:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
2	1	4	5	3	7

A.  $200,000 + 10,000 + 4,000 + 50 + 30 + 7$

C.  $200,000 + 140,000 + 537$

B.  $2,000 + 1,000 + 4,000 + 500 + 30 + 7$

D.  $200,000 + 10,000 + 4,000 + 500 + 30 + 7$

4) Which number is a factor of 16?

A. 3

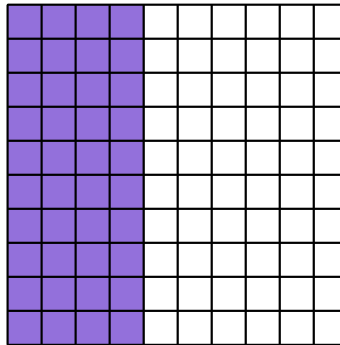
C. 5

B. 6

D. 4



5) Approximately what decimal is represented by the shaded portion?



A. 0.40

C. 0.44

B. 0.04

D. 0.60

6) Which expression does NOT equal  $\frac{7}{10}$ ?

A. Seven unit fractions of  $\frac{1}{10}$

C.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

B.  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

D. 7 parts out of 10

7) If  $\frac{6}{8} = \frac{2}{8} + \underline{\hspace{2cm}}$ , what fraction completes the decomposition?

8) A full turn around a circle measures how many degrees?

A.  $90^\circ$

C.  $270^\circ$

B.  $180^\circ$

D.  $360^\circ$



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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.MD.1) Since 1 kilometer = 1,000 meters, multiply:  $5 \times 1,000 = 5,000$  m. The answer is **5,000** m.
- Choice D is correct.** (4.NBT.3) We're rounding to the nearest ten. Look at the ones digit: 9. Since  $9 \geq 5$ , we round UP! The tens digit changes from 4 to 5, so the answer is **7,150**. ✓
- Choice C is correct.** (4.OA.2) "4 times as many" is a multiplication signal:  $4 \times 8 = 32$  paintbrushes.
- The correct answer is 210.** (4.G.1) Multiply the fraction by 360:  $\frac{7}{12} \times 360^\circ = 7 \times 30^\circ = \mathbf{210}^\circ$ .
- Choice D is correct.** (4.NF.1) Circle 1 shows  $\frac{1}{4}$ . Circle 2 has 8 parts. Multiply numerator and denominator by 2:  $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$ . Shade 2 parts.
- Choice C is correct.** (4.NBT.1) In 3,817, the digit 8 is in the hundreds place, so it represents **8** hundreds (or 800). ✓
- Choice D is correct.** (4.OA.4) The word "add 7" tells us the rule. Check:  $14 - 7 = 7$ ,  $21 - 14 = 7$ . Each increases by 7 (multiples of 7). ✓
- The correct answer is  $\frac{7}{10}$ .** (4.NF.3) Carlos uses 7 pieces out of 10, which is  $\frac{7}{10}$ . As unit fractions:  $\underbrace{\frac{1}{10} + \frac{1}{10} + \dots + \frac{1}{10}}_{7 \text{ copies}}$
- Choice A is correct.** (4.NF.5) The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice C is correct.** (4.G.1) A full circle is a  $360^\circ$  angle—it turns through **360** one-degree angles.
- Choice A is correct.** (4.NBT.4) Start in the ones place:  $0 < 5$ , so regroup one ten as 10 ones. Then subtract from right to left carefully. The answer is **4,835**.
- Choice B is correct.** (4.MD.4) At  $\frac{1}{4}$  inch there is 1 X mark. A value with 2 more X marks would have 3 marks total.  $\frac{5}{4}$  inch has exactly 3 X marks.
- Choice C is correct.** (4.NF.3) Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{2}{6} + \frac{4}{6} = \frac{6}{6} = 1$ . Combine:  $4 + 1 = \mathbf{5}$  meters.
- The correct answer is A, D.** (4.OA.4) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓. 33 =  $3 \times 11$  (composite). 35 =  $5 \times 7$  (composite). 37: passes all—**prime** ✓. 39 =  $3 \times 13$  (composite). So choices A and D are the prime numbers.
- Choice D is correct.** (4.NBT.2) The hundred-thousands and ten-thousands match. Thousands digits:  $1 < 2$ , so Number X is less ✓
- Choice B is correct.** (4.NF.4) We have 3 ribbon strips that are each  $\frac{1}{2}$  yard long. We multiply:  $3 \times \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$  yards total.
- Choice C is correct.** (4.NBT.6) Divide:  $14 \div 8 = 1$  r6, bring down the 5 to get  $65 \div 8 = 8$  r1, bring down the 6 to get  $16 \div 8 = 2$ . Each animal receives **182** pounds of feed.
- Choice A is correct.** (4.NF.3) Same denominator for subtraction too! Just subtract numerators:  $5 - 2 = 3$ , keep the denominator. Result:  $\frac{3}{6}$ .
- Choice C is correct.** (4.G.2) A triangle has three sides, so it cannot have a pair of opposite sides. Parallel sides require opposite sides, which triangles do not have. Rectangles, parallelograms, and trapezoids all have parallel sides. The answer is **C**.
- The correct answer is 75.** (4.MD.2) Each toy costs \$15. Maya buys 5 toys. Multiply:  $15 \times 5 = 75$  dollars. She spends **75** dollars.
- Choice A is correct.** (4.NF.3) The board is  $\frac{14}{8}$  inches. One whole is  $\frac{8}{8}$ , leaving  $14 - 8 = 6$  eighths more. So  $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8}$  ✓.
- Choice C is correct.** (4.MD.3) The table's perimeter is  $P = 2(5) + 2(3) = 10 + 6 = 16$  ft.
- Choice D is correct.** (4.NBT.5) Break 41:  $21 \times (40 + 1) = 840 + 21 = \mathbf{861}$ .
- Choice C is correct.** (4.NF.5) Convert the strawberries:  $\frac{8}{10} = \frac{80}{100}$ . Now add:  $\frac{80}{100} + \frac{15}{100} = \frac{95}{100}$  pound.
- Choice B is correct.** (4.NF.4) The pattern counts by eighths:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \dots$ . So next is  $4 \times \frac{1}{8} = \frac{4}{8}$ .
- Choice C is correct.** (4.MD.3) Each turn is an angle. Add the rotations together:  $110^\circ + 40^\circ = \mathbf{150}^\circ$ .



## Hi, Math Champion!

◇ You trained hard! 8 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!  
★

### Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

**Coach's tip:** the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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 Coach

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 IN MATH.  
SUCCESS FOR LIFE.**

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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.

## TOPICS COVERED

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- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
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