

# 8

# Kansas

## KAP

### GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



8 Full-Length  
Practice Tests



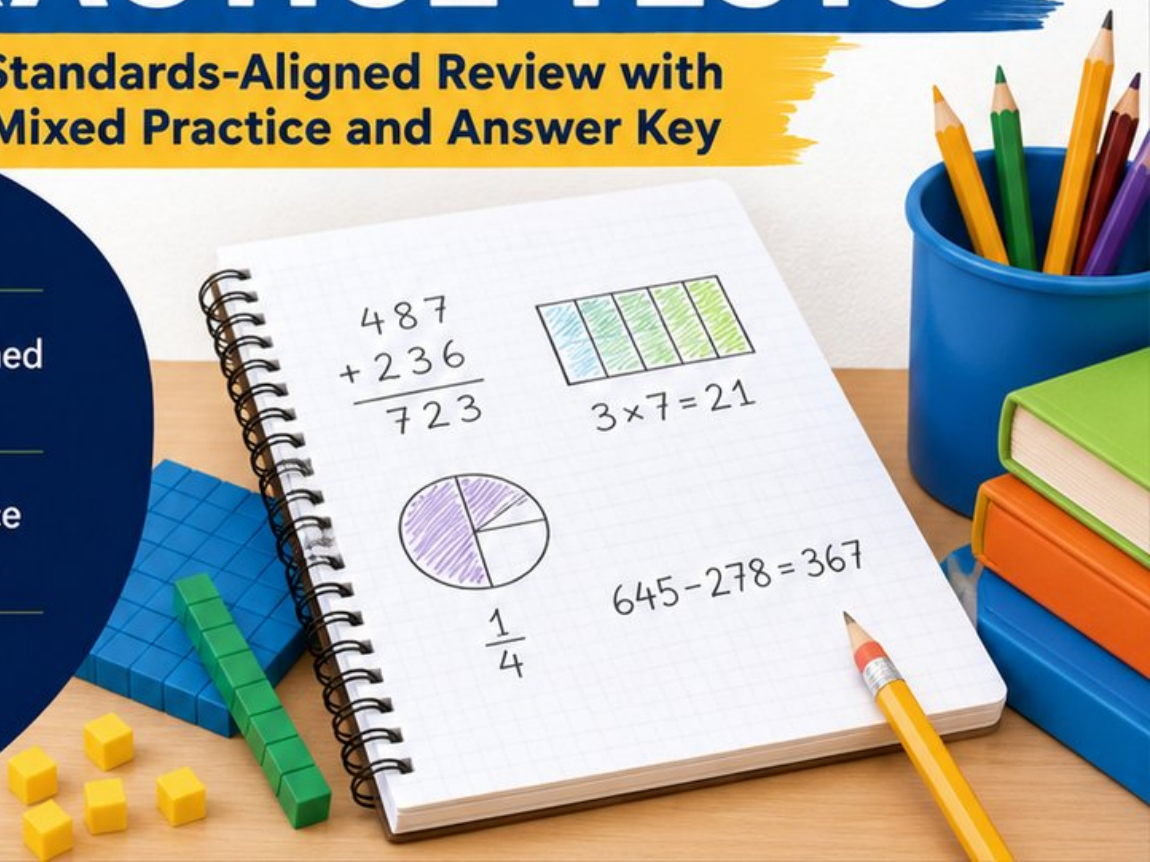
Standards-Aligned  
Questions



Build Confidence  
and Math Skills



Answer Key  
Included



# 8 Kansas KAP Grade 3 Math Practice Tests

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



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Kansas, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Kansas KAP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Kansas has wide prairies, wheat fields, wind farms, bright storm skies, and open-road views, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and keep work lined up and easy to follow.

## Your Kansas Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

**Eight rounds. Thirty questions each. One careful step at a time.**

# How to Use This Book

## A simple eight-round routine for confident review

Use this Kansas book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

**Best review habit:** In Kansas, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



# What Is Inside the Eight Tests?

## Mixed Grade 3 math practice for the KAP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

**Kansas focus:** The practice path starts with wide prairies, wheat fields, wind farms, bright storm skies, and open-road views. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!  
For more practice  
& answers

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1) Sam has a rectangular poster. It is 4 inches wide and 6 inches long. What is the area of the poster?

A. 10 sq in

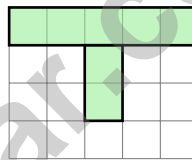
B. 24 sq in

C. 20 sq in

D. 16 sq in

2) Find  $30 \div 5$ .

3) A grid shows a T-shaped figure made of unit squares. You can count by columns or by rows.



How many unit squares form this T-shape?

A. 5 sq units

B. 7 sq units

C. 10 sq units

D. 15 sq units

4) A farmer puts 7 eggs in each carton. If he fills 9 cartons, how many eggs are there?

A. 56 eggs

B. 16 eggs

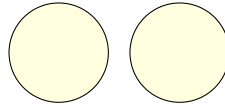
C. 72 eggs

D. 63 eggs



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5) The shaded circles show  $\frac{2}{1}$ . Which picture matches?



Two whole circles

- A. Two circles, one shaded       C. Two circles, both fully shaded  
 B. One circle shaded             D. One circle divided in half

6)  $293 + 158 = ?$

- A. 451                                   C. 441  
 B. 452                                   D. 461



7)

Using the bars, which is true?

- A.  $\frac{1}{2} > \frac{1}{3}$  (halves are larger pieces)       D.  $\frac{1}{3} > \frac{1}{2}$  (1 out of 3 is more than 1 out of 2)  
 B.  $\frac{1}{2} < \frac{1}{3}$  ( $2 < 3$ )  
 C.  $\frac{1}{2} = \frac{1}{3}$

8) Ava draws two number lines from 0 to 1. One is split into 3 equal parts; the other is split into 4 equal parts. Which unit fraction represents a smaller piece?

- A.  $\frac{1}{3}$      C. Both are equal  
 B.  $\frac{1}{4}$      D. Cannot tell



9) Noah colors  $\frac{2}{6}$  of a page. His friend colors  $\frac{1}{3}$  of an identical page. Do they color the same amount?

- A. The pages might be different.       C. Yes, same amount.  
 B. No, his friend colors more.       D. No, Noah colors more.

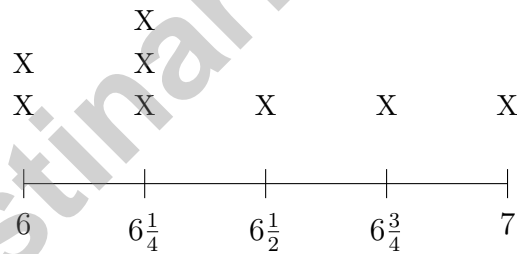
10) Round 734 to the nearest 10.

- A. 730       C. 740  
 B. 734       D. 800

11) A rope is divided into 8 equal sections. What unit fraction describes one section?

- A.  $\frac{1}{8}$        C.  $\frac{2}{8}$   
 B.  $\frac{8}{1}$        D.  $\frac{1}{9}$

12) A line plot shows jump rope lengths in feet:  $6, 6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7$ .



How many jump ropes are at least  $6\frac{1}{4}$  feet long?

- A. 5       C. 7  
 B. 6       D. 8



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- 5) A square tile has sides of 6 centimeters. How many unit squares cover the tile?  
Explain how you counted: did you count by rows or skip-count?



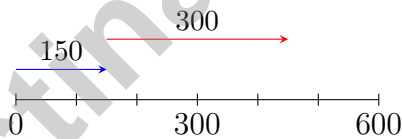
- 6) Here is a rectangle divided into 3 equal columns.



The shaded part is what fraction of the rectangle?

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

7)

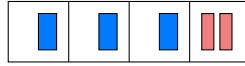


Using the number line, what is  $150 + 300$ ?

- A. 400
  C. 500  
 B. 550
  D. 450



1)



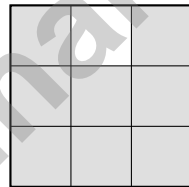
The bar model shows part of a subtraction problem. If the total is 523 and one part is 245, what is the other part?

- A. 278                       C. 378  
 B. 288                       D. 268

2) What fraction is at the right endpoint of a number line split into 2 equal parts?



3) Eli sees a checkerboard with a  $3 \times 3$  pattern of unit squares. How many unit squares are on the board?



- A. 6 unit squares                       C. 9 unit squares  
 B. 8 unit squares                       D. 12 unit squares

4) A composite shape is divided by dashed lines. Part A has area 7 sq units. Part B has area 9 sq units. What is the total?

- A. 9 sq units                       C. 63 sq units  
 B. 16 sq units                       D. 2 sq units



## Practice Test Answer Keys

**How to use this section with a Grade 3 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 B is correct.** **(3.MD.8)** Area =  $4 \times 6 = 24$  square inches.
- 2) **The correct answer is 6.** **(3.OA.3)**  $30 \div 5 = 6$ .
- 3) **Choice B is correct.** **(3.MD.7)** Count the top row: 5 squares. Count the center column below: 2 more squares. Total:  $5 + 2 = 7$  unit squares.
- 4) **Choice D is correct.** **(3.OA.1)** 9 cartons with 7 eggs each means 9 groups of 7. So  $9 \times 7 = 63$  eggs.
- 5) **Choice C is correct.** **(3.NF.3c)**  $\frac{2}{1}$  means 2 wholes. The picture shows two complete shaded circles.
- 6) **Choice A is correct.** **(3.NBT.2)** Ones:  $3 + 8 = 11$  (write 1, carry 1). Tens:  $9 + 5 + 1 = 15$  (write 5, carry 1). Hundreds:  $2 + 1 + 1 = 4$ . Answer: 451.
- 7) **Choice A is correct.** **(3.NF.3d)** Same numerator (1): both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half > one third. Visually: the green shaded area is larger in the first bar.
- 8) **Choice B is correct.** **(3.NF.2a)** More parts means smaller pieces. When the same line is split into more parts, each part is smaller.  $\frac{1}{4} < \frac{1}{3}$ .
- 9) **Choice C is correct.** **(3.NF.3a)**  $\frac{2}{6} = \frac{1}{3}$  because both represent one-third of the page.
- 10) **Choice A is correct.** **(3.NBT.1)** The ones digit is 4. Since  $4 < 5$ , round down: 734 rounds to 730.
- 11) **Choice A is correct.** **(3.NF.1)** When a whole is divided into 8 equal parts, one part is the unit fraction  $\frac{1}{8}$  (one-eighth).
- 12) **Choice B is correct.** **(3.MD.5)** At least  $6\frac{1}{4}$  means  $6\frac{1}{4}$  and longer:  $3 + 1 + 1 + 1 = 6$  ropes.
- 13) **Choice D is correct.** **(3.MD.6b)**  $9 \times 9 = 81$  unit square tiles.
- 14) **Choice D is correct.** **(3.OA.5)** The associative property changes the grouping of the factors without changing their order. So  $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$ .
- 15) **Choices A and C are correct.** **(3.MD.8b)** To find rectangle area, multiply length by width. Here,  $6 \times 9 = 54$  square meters. Adding the sides gives perimeter, not area.
- 16) **Choice C is correct.** **(3.MD.8d)** Add all three:  $8 + 5 + 5 = 18$  square meters.
- 17) **Choice B is correct.** **(3.MD.6)** Area is the space INSIDE a shape. Maria must count or multiply to find all the unit squares, not just the border.  $5 \times 3 = 15$  square units.
- 18) **Choice A is correct.** **(3.NF.3b)** Both bars show the same shaded length.  $\frac{2}{3} = \frac{4}{6}$  because  $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$ .
- 19) **Choice D is correct.** **(3.NBT.3)** The chart shows 9 tens and 0 ones, which represents  $9 \times 10 = 90$  coins.
- 20) **The correct answer is 4 right angles.** **(3.G.1)** A square has 4 right angles.
- 21) **Choice D is correct.** **(3.OA.7)**  $7 \times 7 = 49$ . Seven groups of 7 equals 49.
- 22) **Choice D is correct.** **(3.OA.6)** The multiplication fact  $3 \times 5 = 15$  tells us that 15 beads divided into 3 necklaces gives 5 beads each.  $15 \div 3 = 5$ .
- 23) **The correct answer is 8.** **(3.OA.2)**  $16 \div 2 = 8$ .
- 24) **Choice B is correct.** **(3.NF.2)** The right end is at all 2 parts, so the fraction is  $\frac{2}{2}$ , which equals 1.
- 25) **Choice A is correct.** **(3.MD.8c)** The distributive property lets us split 8 into  $3 + 5$  and add two smaller areas:  $18 + 30 = 48$ . This matches tiling the rectangle in two parts.
- 26) **Choice A is correct.** **(3.NF.3)**  $\frac{2}{3}$  and  $\frac{4}{6}$  represent the same amount. Both show two-thirds.
- 27) **Choice A is correct.** **(3.G.2)** If 3 out of 4 parts are shaded, then 1 part is not shaded, which is  $\frac{1}{4}$ .
- 28) **Choice C is correct.** **(3.MD.4)**  $7 \times 5 = 35$  cupcakes.
- 29) **Choice B is correct.** **(3.MD.1)**  $3 : 45 - 12 \text{ min} = 3 : 33 \text{ PM}$ .
- 30) **Choice B is correct.** **(3.MD.6a)** The rectangle is 3 units wide and 1 unit tall:  $3 \times 1 = 3$  unit squares.

### Practice Test 2 Answers and Explanations



## Hi, Math Athlete!

◇ 8 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

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



## EACH PRACTICE TEST INCLUDES:



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Aligned  
Questions



Variety of  
Question  
Types



Real-World  
Math  
Applications



Step-by-Step  
Progress  
Tracking



Build Skills  
and Boost  
Confidence

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