

# 7 Kansas

## KAP

### Grade 3 MATH

# PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice

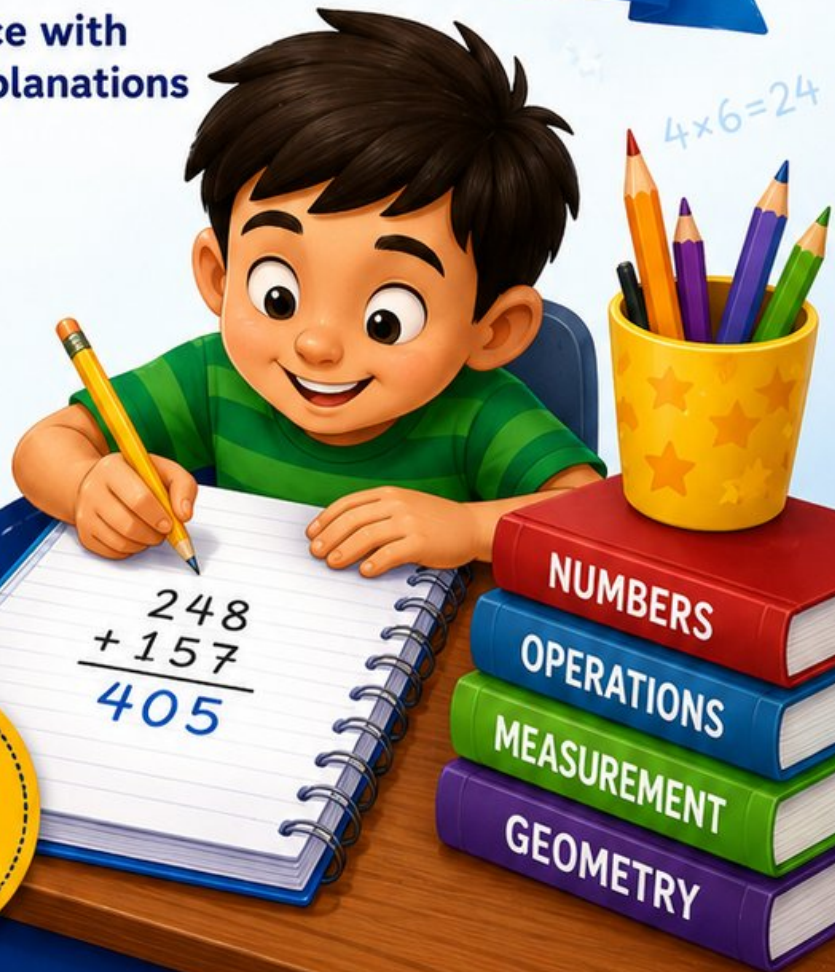


Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



$4 \times 6 = 24$

$2 + 3 = 5$



# 7 Kansas KAP Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails 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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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Kansas KAP. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

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.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Kansas students, each trail moves through wide prairies, wheat fields, wind farms, bright storm skies, and open-road views: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Kansas Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Kansas KAP path.



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For more practice  
& answers

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1) Which repeated addition matches  $5 \times 10$ ?

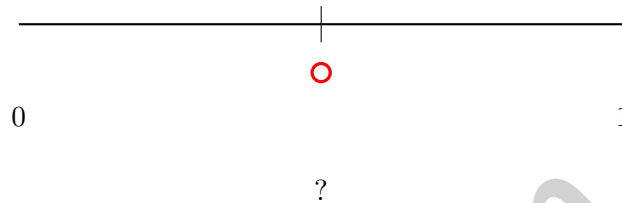
A.  $5 + 5 + 5$

C.  $10 + 10 + 10 + 10 + 10$

B.  $10 + 5$

D.  $5 + 10$

2) Identify the fraction at the marked point on this number line from 0 to 1 divided into 2 equal parts.



A.  $\frac{1}{2}$

C.  $\frac{1}{4}$

B.  $\frac{1}{3}$

D.  $\frac{2}{3}$

3) Which fraction equals the whole number 3?

A.  $\frac{1}{3}$

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

B.  $\frac{3}{1}$

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

4) Otto divides 72 items into 8 equal groups. To find how many items in each group, which multiplication helps him?

A.  $8 \times 8 = 64$

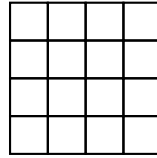
C.  $9 \times 7 = 63$

B.  $10 \times 8 = 80$

D.  $8 \times 9 = 72$

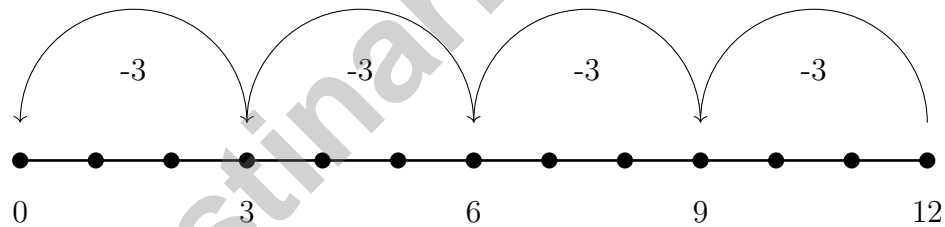


5) Look at this grid of unit squares:



Which is the area?

- A. 8 sq units                       C. 16 sq units  
 B. 12 sq units                       D. 20 sq units
- 6) Noah has a square poster with sides of 6 inches. What is the area of the poster?
- A. 12 sq in                       C. 30 sq in  
 B. 24 sq in                       D. 36 sq in
- 7) Look at the number line. It shows repeated subtraction of 3.



How many times do you subtract 3 from 12 to reach 0?

- A. 2 times                       C. 5 times  
 B. 3 times                       D. 4 times



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- 8) A rectangular game board is 5 inches long and 4 inches wide. What is the area of the game board?



- 9) Maria has 56 cookies. She puts them equally into 7 boxes. How many cookies go in each box?

- A. 7 cookies                       C. 49 cookies  
 B. 63 cookies                     D. 8 cookies

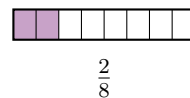
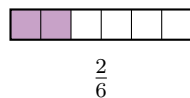
- 10) Ava’s piano lesson is at 3 : 52 PM. She needs to arrive 8 minutes early. What time should Ava arrive?

- A. 3 : 44 PM                       C. 4 : 00 PM  
 B. 3 : 45 PM                       D. 3 : 40 PM

- 11) Which number rounds to 400 when rounded to the nearest 100?

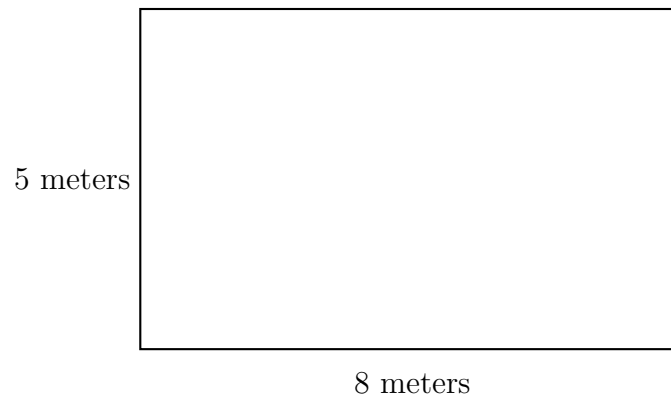
- A. 349                                 C. 449  
 B. 345                                 D. 451

- 12)



Which is true?

- A.  $\frac{2}{6} < \frac{2}{8}$                                  C.  $\frac{2}{6} = \frac{2}{8}$   
 B.  $\frac{2}{6} > \frac{2}{8}$                                  D.  $\frac{2}{8} > \frac{2}{6}$



1)

Mia measured a rectangular space and found it was 8 meters by 5 meters. What is the area?

- A. 26 sq m                       C. 40 sq m  
 B. 80 sq m                       D. 13 sq m

2) If you know  $4 \times 9 = 36$ , which division fact can you write?

- A.  $36 \div 4 = 8$                        C.  $36 \div 6 = 6$   
 B.  $45 \div 9 = 5$                        D.  $36 \div 9 = 4$

3) Which is greater,  $5 \times 30$  or  $6 \times 20$ ?

- A.  $5 \times 30$                        C. They are equal  
 B.  $6 \times 20$                        D. Cannot be determined

4) Mia marks  $\frac{1}{4}$  on a number line from 0 to 1 that has 4 equal parts. Then she marks  $\frac{3}{4}$ . How many tick marks apart are these two points?

- A. 0 marks                       C. 4 marks  
 B. 1 mark                       D. 2 marks

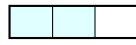
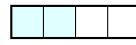


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5) A room is a rectangle. The area is 20 square feet. The length is 5 feet. What is the width?

- A. 2 feet  
 B. 3 feet

- C. 4 feet  
 D. 15 feet


 $\frac{2}{3}$ 

 $\frac{2}{4}$ 

6)

Compare  $\frac{2}{3}$  and  $\frac{2}{4}$ . Which is true?

- A.  $\frac{2}{3} < \frac{2}{4}$  (bigger denominator = bigger fraction)       C.  $\frac{2}{3} > \frac{2}{4}$   
 B.  $\frac{2}{3} = \frac{2}{4}$  (both have numerator 2)       D.  $\frac{2}{4} > \frac{2}{3}$  ( $4 > 3$ , so  $\frac{2}{4}$  is larger)

7) What is 147 rounded to the nearest 10?

- A. 140  
 B. 147

- C. 150  
 D. 200

8) Ben tiles a square using unit squares. He puts 5 tiles in each row and 5 tiles in each column. How many tiles does he use?

- A. 10  
 B. 25

- C. 15  
 D. 50



- 1) A rectangle has width 4 units and length 5 units. It has 5 rows with 4 unit squares in each row. Using repeated addition:  $4 + 4 + 4 + 4 + 4 = ?$
- A. 9 sq units                       C. 15 sq units  
 B. 20 sq units                       D. 16 sq units
- 2) Ava cut a candy bar into thirds. She has  $\frac{15}{3}$  pieces. How many whole candy bars did she start with?
- A. 3                                       C. 15  
 B. 5                                       D. 10
- 3) Which is a property that squares and rectangles both have?
- A. All sides are equal in length                       C. They have exactly one pair of parallel sides  
 B. They have no right angles                       D. All angles are right angles
- 4) Ava divides a number line from 0 to 1 into 3 equal parts. She names the tick marks  $\frac{1}{3}$  and  $\frac{2}{3}$ . If she adds one more tick mark at  $\frac{3}{3}$ , where is it?
- A. Before  $\frac{1}{3}$                                        C. Between  $\frac{1}{3}$  and  $\frac{2}{3}$   
 B. Beyond 1                                       D. At the right end (at 1)
- 5) Ava has 15 stickers. She puts them equally into 5 envelopes. How many stickers does each envelope have?
- A. 10                                       C. 20  
 B. 2                                       D. 3



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6) A pizza shop made 312 pizzas on Friday and 289 pizzas on Saturday. How many pizzas did the shop make in total?

A. 501

C. 511

B. 610

D. 601

7) What is 389 rounded to the nearest 10?

8) Ben has 5 bags with 6 pencils in each bag. He gives away 10 pencils. How many pencils does Ben have left?

A. 20

C. 30

B. 25

D. 35

9) Ava has 6 bags of marbles. Each bag has the same number of marbles. She has 42 marbles in all. How many marbles are in each bag?

$$6 \times \square = 42$$

A. 9

C. 8

B. 6

D. 7

10) What is  $80 \div 8$ ?

A. 8

C. 10

B. 9

D. 12



## 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 C is correct.** **(3.NBT.3)**  $5 \times 10$  means 5 groups of 10, which is the same as adding 10 five times:  $10 + 10 + 10 + 10 + 10 = 50$ . This shows that multiplication is repeated addition.
- 2) **Choice A is correct.** **(3.NF.2a)** The first and only tick mark on a line divided into 2 parts is at  $\frac{1}{2}$ .
- 3) **Choice B is correct.** **(3.NF.3c)** Any whole number can be written as that number over 1. So  $3 = \frac{3}{1}$ . (D) equals 1, not 3.
- 4) **Choice D is correct.** **(3.OA.6)** To solve  $72 \div 8 = \square$ , find  $\square \times 8 = 72$ . The multiplication fact  $8 \times 9 = 72$  tells us the answer is 9 items per group.
- 5) **Choice C is correct.** **(3.MD.6b)**  $4 \times 4 = 16$  unit squares, area is 16 square units.
- 6) **Choice D is correct.** **(3.MD.7)** Area of a square =  $6 \times 6 = 36$  square inches.
- 7) **Choice D is correct.** **(3.OA.2)** You subtract 3 four times:  $12 - 3 - 3 - 3 - 3 = 0$ . So  $12 \div 3 = 4$ .
- 8) **The correct answer is 20 square inches.** **(3.MD.8b)** Area = length  $\times$  width, so  $5 \times 4 = 20$  square inches.
- 9) **Choice D is correct.** **(3.OA.7)**  $56 \div 7 = 8$  cookies in each box. Verify:  $8 \times 7 = 56$ . Distractors: C is  $56 - 7$ ; D is  $7 \times 9$ .
- 10) **Choice A is correct.** **(3.MD.1)**  $3 : 52 - 8 \text{ min} = 3 : 44 \text{ PM}$ .
- 11) **Choice C is correct.** **(3.NBT.1)** Numbers from 350 to 449 round to 400. The number 449 has tens  $4 < 5$ , so it rounds down to 400.
- 12) **Choice B is correct.** **(3.NF.3d)** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 13) **Choices A and C are correct.** **(3.MD.8)** A is correct (core formula: length  $\times$  width = area). C is correct (counting unit squares shows area). B is perimeter-like, not area. D is false:  $5 \times 5 = 25$ , not 10. E is false (this is neither area nor perimeter).
- 14) **Choice A is correct.** **(3.MD.8c)** The equation  $3 \times (5 + 4) = (3 \times 5) + (3 \times 4)$  needs rectangles with the same width of 3.
- 15) **Choice B is correct.** **(3.NF.3b)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2:  $2 \times 2 = 4$ . So  $\frac{2}{3} = \frac{4}{6}$ .
- 16) **Choice A is correct.** **(3.OA.3)** Divide:  $24 \div 3 = 8$  pencils per friend.
- 17) **Choice A is correct.** **(3.NF.2)**  $\frac{1}{4}$  is one part out of four equal parts, so it is at the first tick mark from 0.
- 18) **Choice A is correct.** **(3.OA.4)** Multiply:  $6 \times 8 = 48$ , so the divisor is 8.
- 19) **Choice B is correct.** **(3.NF.1)** Two unit fractions of  $\frac{1}{6}$  are being added:  $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$ . So there are 2 unit fractions.
- 20) **Choice A is correct.** **(3.NBT.2)** This is a missing-addend equation: start with the 127 points left and add the missing amount to get back to 350.
- 21) **Choice D is correct.** **(3.OA.9)** 42 ends in 2, not 0 or 5, so it is not a multiple of 5. All others end in 0 or 5.
- 22) **Choice B is correct.** **(3.MD.4)** Piano:  $6 \times 2 = 12$ . Guitar:  $4 \times 2 = 8$ . More:  $12 - 8 = 4$ .
- 23) **Choice C is correct.** **(3.MD.3)** Convert to mL: Monday = 2000 mL, Tuesday = 1500 mL, Wednesday = 2500 mL. Wednesday is most.
- 24) **Choice B is correct.** **(3.OA.8)** Step 1: Cookies per bag:  $42 \div 6 = 7$  cookies. Step 2: Remaining bags:  $6 - 2 = 4$  bags. Total in remaining:  $7 \times 4 = 28$  cookies. Choice B is clearest with parentheses.
- 25) **Choice D is correct.** **(3.OA.1)** 8 packs with 6 cards each means 8 groups of 6. So  $8 \times 6 = 48$  cards.
- 26) **Choice C is correct.** **(3.MD.6a)** Both shapes are made of 6 unit squares, so both have area 6 square units, even though they have different dimensions.
- 27) **Choice C is correct.** **(3.G.1)** A trapezoid is defined as a quadrilateral with exactly one pair of parallel sides.
- 28) **The correct answer is 15 centimeters.** **(3.MD.9)**  $44 = 2\ell + 2(7) = 2\ell + 14$ , so  $2\ell = 30$  and  $\ell = 15$  cm.
- 29) **Choice C is correct.** **(3.MD.5)** At 1 mm there are 4 X's, which is the highest count.
- 30) **The correct answer is 36 square units.** **(3.MD.6)** Count the square units by rows:  $6 \times 6 = 36$  square units.



## 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

# PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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