

6

Kansas KAP

GRADE 3

MATH

PRACTICE TESTS

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



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Kansas KAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs 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 Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Kansas KAP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Kansas brings wide prairies, wheat fields, wind farms, and bright storm skies. Strong math uses that same care: read the task, select a strategy, build the solution, and keep work lined up and easy to follow.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Kansas students, each lab is a short route through wide prairies, wheat fields, wind farms, and bright storm skies: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
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.

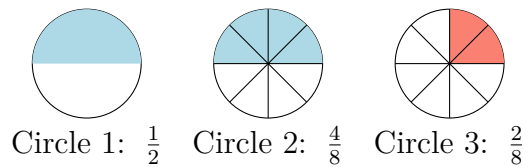


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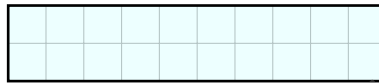
★ Practice Test 1	_____	14
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1) Which two circles show equivalent fractions?



- A. Circles 1 and 2 C. Circles 2 and 3
 B. Circles 1 and 3 D. All three circles

2) This grid shows a rectangle made of unit squares.



What is the total area in square units?

- A. 12 sq units C. 20 sq units
 B. 18 sq units D. 24 sq units
- 3) Look at a column in the multiplication table:

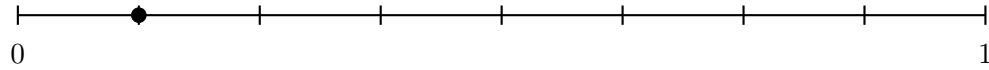
Number	Product
1×6	6
2×6	12
3×6	18
4×6	24

How much does each product increase?

- A. By 1 C. By 4
 B. By 12 D. By 6

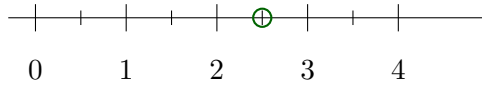


4) Which statement about $\frac{1}{8}$ on an 8-part number line is FALSE?



- A. $\frac{1}{8}$ is at the first tick
- B. $\frac{1}{8}$ is closer to 0 than 1
- C. $\frac{1}{8}$ equals $\frac{2}{4}$
- D. $\frac{1}{8}$ is one equal part out of eight

S



5)

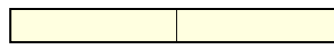
The tick marks divide a number line from 0 to 4 into halves. Where is point S?

- A. $\frac{3}{2}$
- B. $\frac{5}{2}$
- C. $\frac{7}{2}$
- D. $\frac{9}{2}$

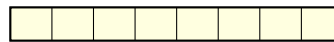
6) Noah is making a rectangular picture frame. The frame is 9 inches wide and 7 inches tall. What is the area inside the frame?

- A. 32 sq in
- B. 56 sq in
- C. 16 sq in
- D. 63 sq in

7) Which fraction is equivalent to $\frac{4}{8}$?



$\frac{1}{2}$



$\frac{4}{8}$

- A. $\frac{1}{4}$
- B. $\frac{1}{2}$
- C. $\frac{3}{8}$
- D. $\frac{3}{4}$



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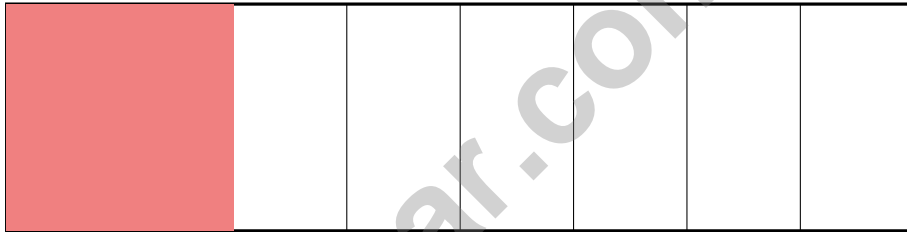
8) Two rectangles are shown. Rectangle A: length 6, width 3. Rectangle B: length 5, width 4. Which has the larger area?

- A. Rectangle A
 B. Rectangle B
 C. They are equal
 D. Cannot tell from the information given

9) Ben has 30 stickers. He puts them in piles of 10. How many piles does he make?

- A. 2
 B. 40
 C. 4
 D. 3

10) A rectangle is divided into 8 equal parts. Two parts are shaded.



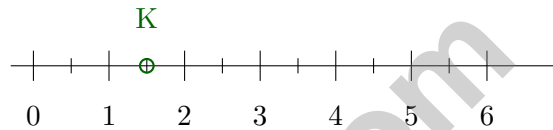
If each shaded part is a unit fraction, what is the total shaded fraction?

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

11) Draw a quadrilateral that is not a rectangle, square, or rhombus.



- 1) A shape has 4 sides and 4 right angles. Which of these could it be?
- A. Square or rectangle C. Triangle or square
 B. Rhombus or trapezoid D. Parallelogram only
- 2) A school has 72 students going on a field trip. They are divided equally into 8 buses. Then 6 more students join one bus. How many students are on that bus now?
- A. 9 C. 15
 B. 10 D. 24

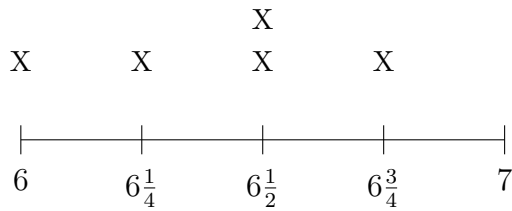


- 3) The number line from 0 to 6 is divided into halves. Point K is at 1.5. Write point K as an improper fraction.
- A. $\frac{2}{3}$ C. $\frac{6}{2}$
 B. $\frac{3}{2}$ D. $\frac{12}{2}$
- 4) A store arranges tennis balls into groups of 9. If there are 63 tennis balls, how many groups are there?
- A. 7 C. 54
 B. 8 D. 72



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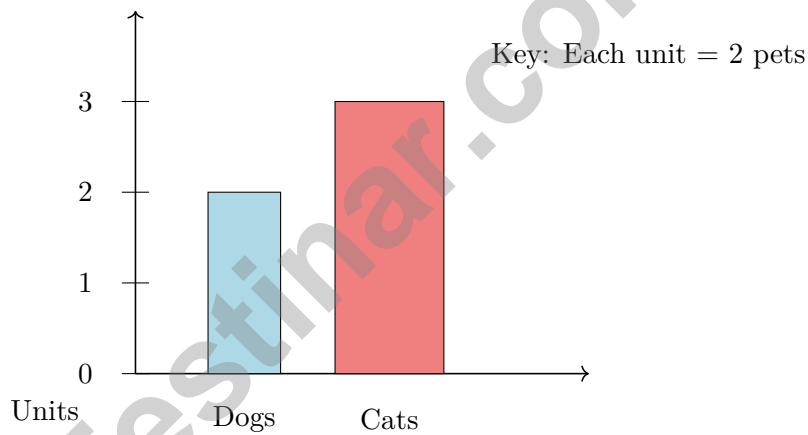
5) A line plot shows fish tank measurements in inches using quarters: $6, 6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7$.



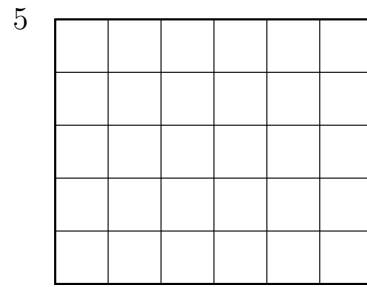
How many measurements in total?

- A. 5
- B. 6
- C. 4
- D. 7

6) Look at the bar graph. What is the height of each bar in units?



- A. Dogs is 3 units, Cats is 2 units.
- B. Dogs is 2 units, Cats is 3 units.
- C. Dogs is 2 units, Cats is 2 units.
- D. Dogs is 1 unit, Cats is 4 units.



1)

A playground is covered with square tiles. It is 6 tiles wide and 5 tiles long. How many tiles are there?

 A. 22 C. 11 B. 30 D. 65

2) Which shape would require 4 unit squares and has equal side lengths?

 A. A 2×2 square C. A 1×4 rectangle B. A 4×1 rectangle D. A 3×2 rectangle3) Two identical number lines go from 0 to 1. Point A marks $\frac{2}{3}$. Point B marks $\frac{4}{6}$. Do they mark the same position? A. Cannot tell from the description. C. Yes, same position. B. No, B is further right. D. No, A is further right.4) Complete the fact family. From the multiplication $7 \times 6 = 42$, which division is missing?

Multiplication	Division
$7 \times 6 = 42$	$42 \div 7 = 6$
$6 \times 7 = 42$	$42 \div 6 = \square$

 A. 6 C. 42 B. 1 D. 7

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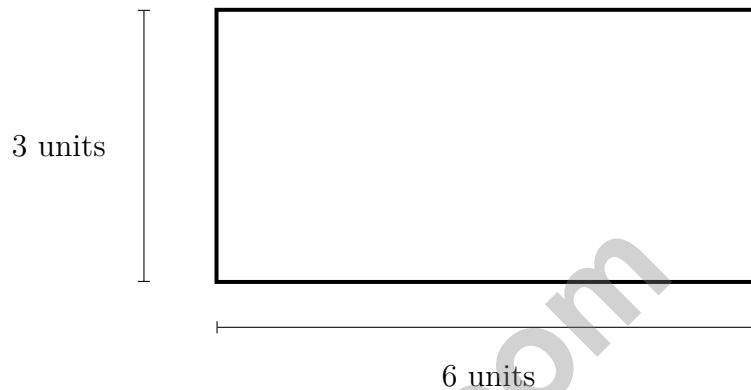
5) A classroom floor is a rectangle. It is 8 meters long and 6 meters wide. How many square meters is the classroom floor?

A. 14 square meters

C. 28 square meters

B. 48 square meters

D. 56 square meters



6)

What is the perimeter of this rectangle in units?

A. 9 units

C. 36 units

B. 18 units

D. 54 units

7) A rectangle on a grid has 8 columns and 5 rows of unit squares. Explain one way you could count all the unit squares.



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 A is correct.** **(3.NF.3b)** Multiply numerator and denominator by 4: $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$. Both show half.
- 2) **Choice C is correct.** **(3.MD.7)** $10 \times 2 = 20$ unit squares.
- 3) **Choice D is correct.** **(3.OA.9)** From 6 to 12 is +6; from 12 to 18 is +6; from 18 to 24 is +6.
- 4) **Choice C is correct.** **(3.NF.2)** $\frac{1}{8} \neq \frac{2}{4}$ because $\frac{1}{8}$ is much smaller. $\frac{2}{4} = \frac{1}{2}$, which is much farther from 0.
- 5) **Choice B is correct.** **(3.NF.2b)** Counting from 0: each small tick mark is $\frac{1}{2}$. Point *S* is at the 5th tick (at position 2.5), so it is $5 \times \frac{1}{2} = \frac{5}{2}$.
- 6) **Choice D is correct.** **(3.MD.8b)** Area = width \times height = $9 \times 7 = 63$ square inches.
- 7) **Choice B is correct.** **(3.NF.3)** $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- 8) **Choice B is correct.** **(3.MD.8)** Rectangle A: $6 \times 3 = 18$ sq units. Rectangle B: $5 \times 4 = 20$ sq units. $20 > 18$, so B is larger.
- 9) **Choice D is correct.** **(3.OA.2)** This is measurement division: How many groups of 10 fit in 30? $30 \div 10 = 3$.
- 10) **Choice A is correct.** **(3.NF.1)** Two unit fractions of $\frac{1}{8}$ add up to $\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$.
- 11) **The correct answer is trapezoid.** **(3.G.1)** There are many quadrilaterals beyond rectangles, squares, and rhombuses. A trapezoid (with one pair of parallel sides) is one example. Students may also draw an irregular quadrilateral with no parallel sides.
- 12) **Choice C is correct.** **(3.MD.6b)** Count the rows: 5 rows. Count across: 6 tiles in each row. Total: $6 + 6 + 6 + 6 + 6 = 30$ unit square tiles are needed.
- 13) **Choice D is correct.** **(3.OA.7)** $6 \times 7 = (6 \times 10) - (6 \times 3) = 60 - 18 = 42$. Breaking the fact into known facts is a good mental-math strategy.
- 14) **Choice D is correct.** **(3.OA.3)** Multiply: 5 shelves \times 6 books per shelf = 30 books.
- 15) **Choice A is correct.** **(3.NBT.2)** Add three numbers: $145 + 208 + 197 = 550$. Ones: $5 + 8 + 7 = 20$ (write 0, carry 2). Tens: $4 + 0 + 9 + 2 = 15$ (write 5, carry 1). Hundreds: $1 + 2 + 1 + 1 = 5$.
- 16) **Choices A and B are correct.** **(3.OA.6)** The fact family for 5, 6, and 30 includes multiplication facts and related division facts. Options A ($5 \times 6 = 30$) and B ($30 \div 5 = 6$) are correct. C, D, and E are addition or subtraction statements, so they are not part of this multiplication/division fact family.
- 17) **Choice C is correct.** **(3.MD.3)** Add: $5 + 2 = 7$ kg.
- 18) **Choice A is correct.** **(3.OA.1)** Three packs with eight erasers each is 3 groups of 8, which equals $3 \times 8 = 24$ or $8 \times 3 = 24$. Option B is the addition misconception. Option C uses only one factor. Option D is incomplete (only two groups).
- 19) **Choice C is correct.** **(3.G.2)** One part out of four equal parts is $\frac{1}{4}$.
- 20) **Choice C is correct.** **(3.MD.1)** $7 : 29 + 1$ hour = $8 : 29$. Then $8 : 29 + 16$ min = $8 : 45$ AM.
- 21) **The correct answer is 1 inch.** **(3.MD.5)** Range = max - min = $8 - 7 = 1$ inch.
- 22) **Choice A is correct.** **(3.NF.3c)** $\frac{2}{1} = 2$ (two wholes) and $\frac{4}{2} = 2$ (four halves). Both equal 2.
- 23) **Choice C is correct.** **(3.NF.3a)** $\frac{4}{8} = \frac{1}{2}$. Both represent one-half of their rectangles.
- 24) **Choice B is correct.** **(3.NF.2a)** Larger denominators give smaller fractions. $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$.
- 25) **Choice C is correct.** **(3.NBT.1)** The ones digit is 9. Since $9 \geq 5$, round up: 429 rounds to 430.
- 26) **Choice B is correct.** **(3.NF.3d)** CRITICAL: Fraction comparisons are ONLY valid when both fractions describe the same-size whole. Since pizza B is bigger than pizza A, $\frac{1}{4}$ of the smaller pizza may actually be bigger than $\frac{1}{6}$ of the larger pizza. We cannot compare them. Standard 3.NF.A.3.d requires recognizing that comparisons are valid only when the two fractions refer to the same whole.
- 27) **Choice A is correct.** **(3.MD.8d)** Add all three parts: $12 + 9 + 9 = 30$ square units.
- 28) **Choice A is correct.** **(3.OA.4)** Multiply: $4 \times 7 = 28$ stickers. The unknown is 28.
- 29) **Choice A is correct.** **(3.OA.8)** Step 1: Total stickers: $4 \times 9 = 36$ stickers. Step 2: Share equally: $36 \div 6 = 6$ stickers per friend.



Hi, Math Athlete!

◇ 6 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! ★

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If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

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This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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