

4

Kansas KAP

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



4 Kansas KAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 3 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome to the Kansas Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Kansas KAP. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Kansas has open skies, sunflower fields, and long roads where good plans keep you moving. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Kansas KAP: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

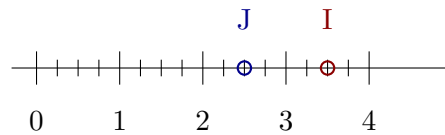
What strong KAP work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.



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1)

On a number line from 0 to 4 divided into fourths, point J is at 2.5 and point I is at 3.5. Which two fractions label these points?

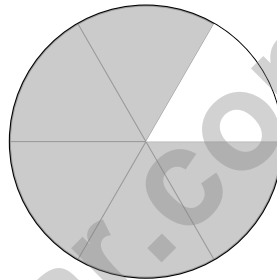
A. $J = \frac{10}{4}, I = \frac{14}{4}$

C. $J = \frac{8}{4}, I = \frac{14}{4}$

B. $J = \frac{10}{4}, I = \frac{13}{4}$

D. $J = \frac{5}{4}, I = \frac{7}{4}$

2) A cake is divided into 6 equal pieces. Ava takes one piece. Which fraction is left?



A. $\frac{1}{6}$

C. $\frac{5}{6}$

B. $\frac{2}{6}$

D. $\frac{6}{6}$

3) If you have the number _____, and you round it to the nearest 10, you get 70. You also know the number is odd. Which number could it be?

A. 65

C. 72

B. 68

D. 74

4) An L-shaped deck has areas 18 sq units and 10 sq units. What is the total area of the deck?

A. 8 sq units

C. 36 sq units

B. 28 sq units

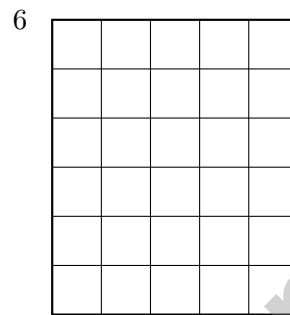
D. 180 sq units



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10) A bakery makes 6 batches of cookies with 8 cookies per batch. They pack them into boxes with 4 cookies each. How many boxes do they fill?

- A. 8
 B. 10
 C. 12
 D. 14



11)

What is the area of this tiled rectangle?

- A. 11
 B. 20
 C. 30
 D. 56

12) Find $35 \div 5$.

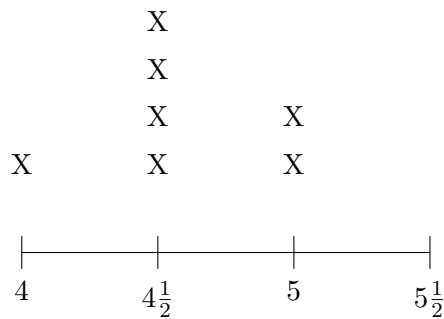
13) A rectangle has length 8 yards and width 1 yard. What is the area?

- A. 8 sq yd
 B. 7 sq yd
 C. 9 sq yd
 D. 16 sq yd



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1) Mia recorded the weights of apples in ounces. The line plot shows: $4, 4\frac{1}{2}, 5, 5\frac{1}{2}$.

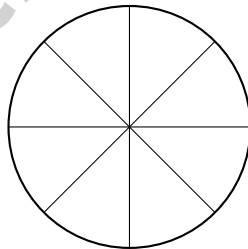


Which weight has the least X's?

- A. 4 ounces
 - B. $4\frac{1}{2}$ ounces
 - C. 5 ounces
 - D. $5\frac{1}{2}$ ounces
- 2) Complete: $\square \times 7 = 63$

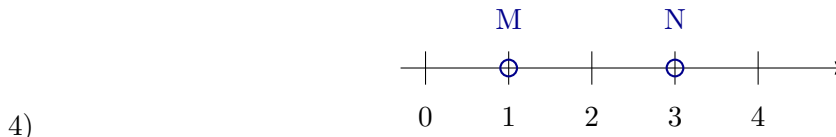
- A. 7
- B. 8
- C. 10
- D. 9

3) A circle is divided by lines from the center to make 8 equal parts (like pizza slices). What fraction is one slice?



- A. $\frac{2}{8}$
- B. $\frac{1}{6}$
- C. $\frac{1}{4}$
- D. $\frac{1}{8}$



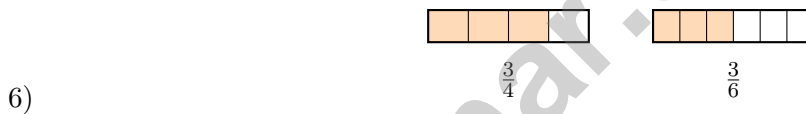


Two points M and N are marked on a number line from 0 to 4. Point M is at 1 and point N is at 3. What fraction of the whole distance from 0 to 4 is point N ?

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

5) A rectangle is partitioned into two parts with areas 21 and 12. Both share a width of 3. Which equation uses the distributive property to add the two smaller areas?

- A. $3 \times (7 + 4) = 3 \times 11 = 33$
 C. $3 + 7 + 4 = 14$
 B. $3 \times (7 + 4) = (3 \times 7) + (3 \times 4) = 21 + 12 = 33$
 D. $(7 \times 4) + (3) = 31$



Using the bars, which is larger?

- A. $\frac{3}{4}$ (shaded area bigger)
 C. They are equal
 B. $\frac{3}{6}$ (has 6 pieces)
 D. Cannot tell from the bars

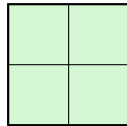
7) Ben starts his chores at 3 : 14 PM. He finishes at 3 : 56 PM. How long does Ben do chores?

- A. 38 minutes
 C. 42 minutes
 B. 40 minutes
 D. 45 minutes

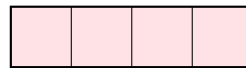


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7) A cup holds 200 mL. About how many cups would fill a 1000 mL pitcher? ESTIMATE.



M



N

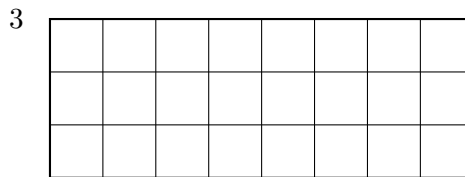
8)

Shape M is a 2-by-2 square. Shape N is a 4-by-1 rectangle. How many more unit squares does one have?

- A. Shape M has 0 more (they are equal) C. Shape N has 1 more
 B. Shape M has 1 more D. They cannot be compared

9) Ben says $5 \times 40 = 54$ because he added $5 + 4$ instead of multiplying. Which answer is correct?

- A. 9 C. 54
 B. 45 D. 200



8

10)

How many unit squares tile this wide rectangle?

- A. 11 C. 24
 B. 18 D. 83



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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.A.2b)** At 2.5 on fourths: $\frac{10}{4}$. At 3.5 on fourths: $\frac{14}{4}$.
- 2) **Choice C is correct.** **(3.G.A.2)** If one piece is taken from 6 equal pieces, 5 pieces remain, which is $\frac{5}{6}$.
- 3) **Choice A is correct.** **(3.NBT.A.1)** Numbers from 65 to 74 round to 70. Among choices, A (65) is odd and rounds to 70. B (68) is even. C (72) is even. D (74) is even.
- 4) **Choice B is correct.** **(3.MD.C.7d)** Add the areas: $18 + 10 = 28$ square units.
- 5) **Choice B is correct.** **(3.MD.B.3)** Summer: $5 \times 8 = 40$. Winter: $3 \times 8 = 24$. Difference: $40 - 24 = 16$.
- 6) **Choice A is correct.** **(3.NBT.A.2)** For $405 - 189$, the standard algorithm with regrouping (forming 3 hundreds 9 tens from 4 hundreds 0 tens) is most direct. Count-up (C) requires many jumps; estimation (D) loses precision; place-value (B) requires tracking three separate subtractions. The algorithm minimizes errors for this problem.
- 7) **Choice A is correct.** **(3.NF.A.2a)** Six equal parts means the first tick is at unit fraction $\frac{1}{6}$.
- 8) **Choice A is correct.** **(3.OA.A.3)** Divide: $36 \div 4 = 9$ books per shelf.
- 9) **The correct answer is 2 X's.** **(3.MD.B.4)** Two leaves measured exactly $2\frac{1}{4}$ inches, so there would be 2 X's above the $2\frac{1}{4}$ mark.
- 10) **Choice C is correct.** **(3.OA.D.8)** Step 1: Total cookies: $6 \times 8 = 48$ cookies. Step 2: Divide into boxes: $48 \div 4 = 12$ boxes.
- 11) **Choice C is correct.** **(3.MD.C.7a)** $5 \times 6 = 30$ square units.
- 12) **The correct answer is 7.** **(3.OA.C.7)** $35 \div 5 = 7$.
- 13) **Choice A is correct.** **(3.MD.C.7)** Area = $8 \times 1 = 8$ square yards.
- 14) **The correct answer is 12 unit squares.** **(3.MD.C.5a)** Count rows (3) and columns (4), then multiply: $3 \times 4 = 12$ unit squares.
- 15) **Choice A is correct.** **(3.MD.A.1)** From 2:09 to 2:41: count up from 9 to 41. That is $41 - 9 = 32$ minutes.
- 16) **Choices A, C, and D are correct.** **(3.OA.A.1)** $4 \times 7 = 28$. Diego's $7 + 7 + 7 + 7$ equals 28, Sam's $4 + 4 + 4 + 4 + 4 + 4 + 4$ equals 28, and Pia's four rows of seven dots equals 28.
- 17) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (1): eighths divide the whole into 8 tiny pieces (each piece is small), fourths divide into 4 larger pieces. One eighth (1 tiny piece) < one fourth (1 larger piece). Rule: same numerator, larger denominator means smaller pieces.
- 18) **Choice D is correct.** **(3.MD.A.2)** Multiply: $6 \times 200 = 1200$ mL.
- 19) **Choice B is correct.** **(3.MD.C.6)** $3 \times 6 = 18$ sq ft. The other choices do not equal 18.
- 20) **Choice D is correct.** **(3.MD.C.5)** Rectangle A: $2 \times 6 = 12$ square units. Rectangle B: $3 \times 4 = 12$ square units. Both have the same area.
- 21) **Choice B is correct.** **(3.NF.A.3)** Ava used 4 out of 8 markers, which is $\frac{1}{2}$.
- 22) **Choice A is correct.** **(3.OA.B.6)** Division is an unknown-factor problem. $32 \div 8 = \square$ is the same as finding $\square \times 8 = 32$, which gives $\square = 4$. Distractors B, C, D are off-by-one or incorrect products.
- 23) **Choice B is correct.** **(3.MD.C.7c)** One part is $4 \times 10 = 40$. Total is 60. So the other part has area $60 - 40 = 20$.
- 24) **Choice B is correct.** **(3.MD.C.5b)** $7 \times 5 = 35$ square units.
- 25) **Choice D is correct.** **(3.OA.A.2)** $18 \div 6 = 3$. The picture shows 6 equal groups, each with 3 items.
- 26) **Choice A is correct.** **(3.NF.A.3a)** Both fractions equal one-half and represent the same point on a number line.
- 27) **Choice D is correct.** **(3.OA.B.5)** The distributive property lets you break apart a factor: $8 \times 3 = 8 \times (2 + 1) = 8 \times 2 + 8 \times 1 = 16 + 8 = 24$.
- 28) **Choice D is correct.** **(3.G.A.1)** A rhombus is a quadrilateral with 4 sides that are all equal in length. This is the defining characteristic of a rhombus.
- 29) **Choice D is correct.** **(3.OA.D.9)** Skip counting by an even number always gives all even numbers.
- 30) **Choice C is correct.** **(3.NBT.A.3)** Multiply $7 \times 6 = 42$, then add one zero: $7 \times 60 = 420$.



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Hi, Math Pilot!

◇ 4 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

Build Skills. Achieve More.

This book gives **Grade 3** students the focused practice they need to master math concepts with confidence.

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Questions designed to match Grade 3 math standards.



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