

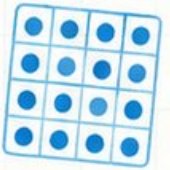
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$



Kansas

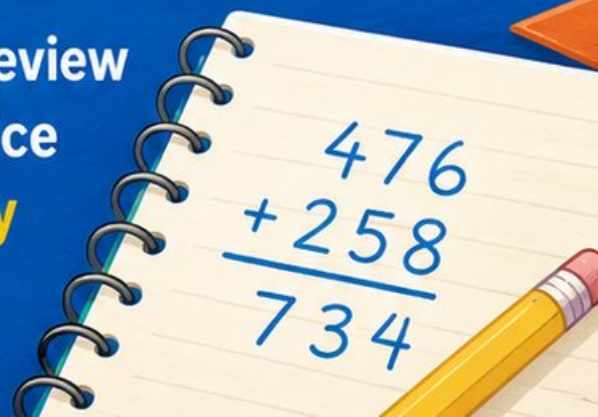
KAP

GRADE 4

MATH

PRACTICE TESTS

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



10 Kansas KAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Sunflower State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Kansas book.
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.

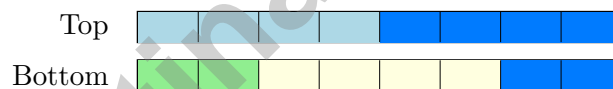


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- 1) Ava ran 0.3 kilometers and then 0.5 kilometers. How far did she run in total?
- A. 0.2 km C. 0.35 km
 B. 0.8 km D. 1.0 km
- 2) A rope is 48 inches long. If it is cut into 6 equal pieces, how long is each piece?
- A. 6 inches C. 42 inches
 B. 8 inches D. 54 inches
- 3) A triangle has three angles that are all less than 90 degrees. What type of triangle is it?
- A. Obtuse triangle C. Right triangle
 B. Acute triangle D. Isosceles triangle
- 4) A student draws two bars showing $\frac{8}{8}$:



Which decomposition does the top bar show?

- A. $\frac{4}{8} + \frac{4}{8}$ C. $\frac{1}{8} + \frac{7}{8}$
 B. $\frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$ D. $\frac{3}{8} + \frac{5}{8}$
- 5) Is 19 prime or composite?
- A. Both C. Neither
 B. Composite D. Prime



6) Which comparison is correct?

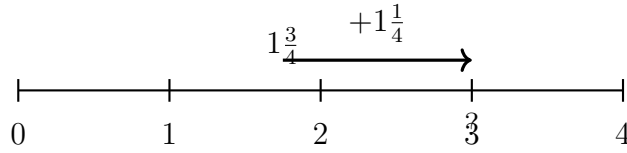
A. $456,200 > 456,300$

C. $189,450 = 189,451$

B. $345,678 < 345,667$

D. $234,567 < 234,576$

7)



Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

A. 3

C. $2\frac{1}{4}$

B. $2\frac{3}{4}$

D. $3\frac{1}{4}$

8) Find $8 \times \frac{2}{3}$ as a mixed number.

9)



Naomi has 9 ribbons. Her grandmother has 2 times as many ribbons as Naomi. How many ribbons does her grandmother have?

A. 11

C. 20

B. 16

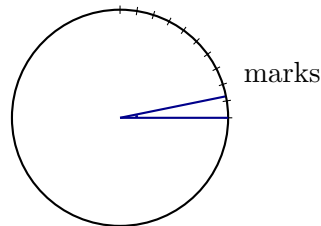
D. 18



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10) Which tool is used to measure the size of an angle in degrees?

- A. Protractor C. Ruler
 B. Compass D. Calculator



11)

This angle reaches the first 9° mark. How many one-degree angles make this angle?

- A. 9 one-degree angles C. 18 one-degree angles
 B. 4.5° D. 1°

12) A book club buys 9 bundles of books. Each bundle has 15 books. If they distribute all books to 5 libraries equally, how many books does each library receive?

- A. 24 books C. 30 books
 B. 25 books D. 27 books

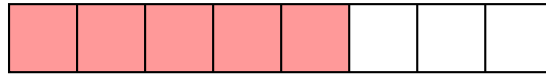
13) Which fraction can be written as $4 \times \frac{1}{5}$?

- A. $\frac{4}{5}$ C. $\frac{4}{20}$
 B. $\frac{1}{20}$ D. $\frac{5}{4}$

14) What is $\frac{7}{12} + \frac{2}{12}$?

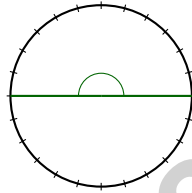
- A. $\frac{9}{24}$ C. $\frac{14}{12}$
 B. $\frac{9}{12}$ D. $\frac{5}{12}$

- 1) A rectangle is divided into 8 equal columns. 5 columns are painted red. Show the red fraction as a sum of unit fractions.



5 red columns out of 8

- A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
 C. 5 parts of 5
 B. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
 D. $\frac{5}{5}$



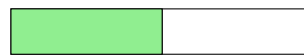
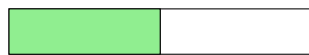
straight angle

2)

A straight angle is shown above. How many one-degree angles make a straight angle?

- A. 90 one-degree angles
 C. 360 one-degree angles
 B. 180 one-degree angles
 D. 270 one-degree angles
- 3) A recipe calls for 8 ounces of chocolate. How many pounds is this?
- A. $\frac{1}{2}$
 C. 1
 B. $\frac{2}{3}$
 D. 2

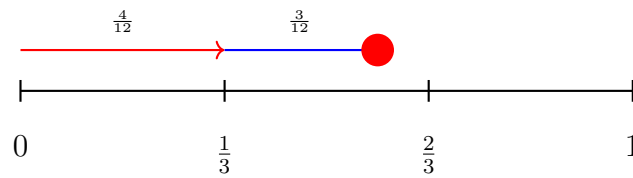
4) Which equation does this bar model show?



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



5) A number line shows two jumps to reach $\frac{7}{12}$:



Which equation matches the two jumps shown?

A. $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

C. $\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$

B. $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$

D. $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$

6) A pizza is cut into 12 equal slices. Mia eats 7 slices. What fraction of the pizza did Mia eat?

A. $\frac{7}{12}$

C. $\frac{5}{12}$

B. $\frac{12}{7}$

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

7) What is $5 \times \frac{1}{4}$?

A. $\frac{1}{20}$

C. $\frac{5}{4}$

B. $\frac{4}{5}$

D. $\frac{5}{8}$

8) All the factors of 24 are:

A. 1, 2, 3, 4, 8, 12, 24

C. 2, 3, 4, 6, 8, 12, 24

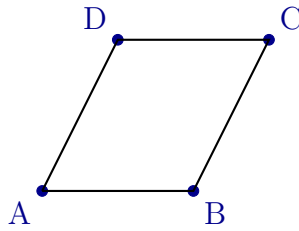
B. 1, 2, 4, 6, 8, 12, 24

D. 1, 2, 3, 4, 6, 8, 12, 24



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1) How many vertices are shown in this figure?



A. 2 vertices

C. 4 vertices

B. 3 vertices

D. 5 vertices

2) Which expression matches the fraction $\frac{8}{10}$?

A. $2 \times \frac{1}{10}$

C. $10 \times \frac{1}{8}$

B. $8 \times \frac{1}{10}$

D. $8 \times \frac{1}{80}$

3) Which pair of fractions can be compared using $\frac{1}{2}$ as a benchmark?

A. $\frac{1}{8}$ and $\frac{2}{8}$

C. $\frac{5}{6}$ and $\frac{5}{8}$

B. $\frac{3}{10}$ and $\frac{4}{5}$

D. $\frac{3}{4}$ and $\frac{2}{3}$

4) The space inside an angle is called:

A. the exterior

C. the interior

B. the arc

D. the vertex

5) Find $4 \times \frac{1}{3}$.



6) A baker had $3\frac{3}{5}$ cups of sugar. She used $2\frac{1}{5}$ cups for a cake. How much sugar is left?

A. $1\frac{2}{5}$

B. $1\frac{1}{5}$

C. $5\frac{4}{5}$

D. $2\frac{2}{5}$

7) A water bottle holds $\frac{3}{4}$ liter. If you fill 5 bottles, how many liters of water do you have in total?

8) What is $4 \times \frac{2}{5}$?

A. $\frac{4}{5}$

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

C. $\frac{8}{20}$

D. $\frac{8}{5}$

9) $\frac{3}{4}$ is equivalent to $\frac{6}{?}$. What is the missing denominator?

A. 6

B. 12

C. 10

D. 8

10) Two angles are measured: one is 55 degrees and one is 165 degrees. Which statement is true?

 A. Both angles are acute B. Both angles are obtuse C. One is acute and one is obtuse D. Both angles are right angles

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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.NF.5) Add the two decimals: $0.3 + 0.5 = 0.8$ kilometers.
- Choice B is correct.** (4.MD.2) A 48-inch rope is cut into 6 equal pieces. Divide: $48 \div 6 = 8$ inches. Each piece is 8 inches long.
- Choice B is correct.** (4.G.2) An acute triangle is identified by all three angles being less than 90 degrees. When all angles are acute, the triangle itself is classified as acute. The answer is **B**.
- Choice A is correct.** (4.NF.3) The top bar has two equal colors: light is $\frac{4}{8}$ and dark is $\frac{4}{8}$. Together: $4 + 4 = 8$, giving $\frac{8}{8} \checkmark$.
- Choice D is correct.** (4.OA.4) Try the small primes: 19 is odd (not $\div 2$); digits $1 + 9 = 10$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$); $7 \times 2 = 14$, $7 \times 3 = 21$ (no 7). The only factors of 19 are 1 and 19 itself. *Exactly two factors* = **prime**.
- Choice D is correct.** (4.NBT.2) Looking at B: thousands and hundreds match. Tens place: $6 < 7$, so $234,567 < 234,576$ is true. Others are false \checkmark .
- Choice A is correct.** (4.NF.3) Start at $1\frac{3}{4}$ and jump right by $1\frac{1}{4}$. Add the wholes: $1 + 1 = 2$. Add the fractions: $\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$. Combine: $2 + 1 = 3$.
- The correct answer is $5\frac{1}{3}$.** (4.NF.4) We take 8 copies of $\frac{2}{3}$. Multiply: $8 \times \frac{2}{3} = \frac{8 \times 2}{3} = \frac{16}{3} = 5\frac{1}{3}$. The answer is $5\frac{1}{3}$.
- Choice D is correct.** (4.OA.2) The bar model shows the grandmother's bar is 2 equal pieces, each the size of Naomi's 9 ribbons. Multiply: $2 \times 9 = 18$ ribbons.
- Choice A is correct.** (4.NBT.1) A protractor is the special tool we use to measure angles in whole-number degrees. The ruler measures length and the compass draws circles, but only the protractor shows us how many degrees are in an angle.
- Choice A is correct.** (4.G.1) The small angle reaches the first degree mark at 9° , containing **9** one-degree angles.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: total books from all bundles: $9 \times 15 = 135$ books. Step 2: divide equally among 5 libraries: $135 \div 5 = 27$ books each.
- Choice A is correct.** (4.NF.4) Four fifths: $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice B is correct.** (4.NF.3) Same denominator rule: $7 + 2 = 9$ twelfths. Answer: $\frac{9}{12}$.
- The correct answer is $\frac{90}{100}$.** (4.NF.5) Place-value reasoning: 1 tenth equals 10 hundredths, so 9 tenths equals $9 \times 10 = 90$ hundredths. Written as fractions: $\frac{9}{10} = \frac{9 \times 10}{10 \times 10} = \frac{90}{100}$. To check, both fractions name the same shaded region on a 10×10 grid (each $\frac{1}{10}$ column equals 10 of the $\frac{1}{100}$ squares). \checkmark
- Choice B is correct.** (4.NF.5) All three have tenths = 7, so compare hundredths: $0 < 5 < 8$. Thus $0.70 < 0.75 < 0.80$.
- The correct answer is A, C.** (4.MD.4) A is correct: $\frac{2}{4}$ in has 3 X marks. C is correct: $\frac{3}{4}$ in has 3 X marks. Statement B is false: only 1 ribbon measured $\frac{1}{4}$ in. Statement D is false: the range is $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$, not $\frac{3}{4}$. Statement E is false: the total is 7 ribbons, not 8.
- Choice A is correct.** (4.NBT.4) "How much farther" asks us to subtract. $3,456 - 2,789 = 667$ meters.
- The correct answer is 9.** (4.NF.4) The numerator 9 tells us how many unit fractions. Since the unit fraction is $\frac{1}{10}$, we have $9 \times \frac{1}{10} = \frac{9}{10}$.
- Choice A is correct.** (4.G.1) In angle notation $\angle YXZ$, the middle letter names the vertex. The middle letter is **X**.
- Choice D is correct.** (4.OA.1) Read $12 = 3 \times 4$ in words: "12 equals 3 groups of 4." That's the same as saying "12 is 3 times as many as 4." The other choices use *more*, *plus*, or *less*—those describe adding or subtracting, not multiplying.
- Choice A is correct.** (4.NF.3) The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what's needed: $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$ more bags of soil are needed.
- Choice B is correct.** (4.MD.1) Check each option. A: 2 m = 200 cm, not 2 cm. B: 5 feet = $5 \times 12 = 60$ inches. Correct! C: 3 L = 3,000 mL, not 30 mL. D: 4 pounds = $4 \times 16 = 64$ ounces, not 48 oz. The answer is **B**.
- Choice A is correct.** (4.NF.1) All have numerator 4. Larger denominators give smaller pieces: fifths $>$ sixths $>$ eighths. So $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$.



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Hi, Math Inventor!

◇ 10 practice tests. 10 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

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This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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