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— ★ ★ ★ ★ ★ —

Kansas

KAP

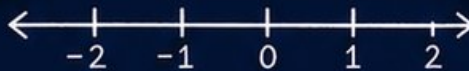
★

GRADE 5

MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$5^2 = 25$



**6 FULL-LENGTH
PRACTICE TESTS**

Realistic style questions



**STANDARDS-BASED
PRACTICE**

Covers all Grade 5
Math standards



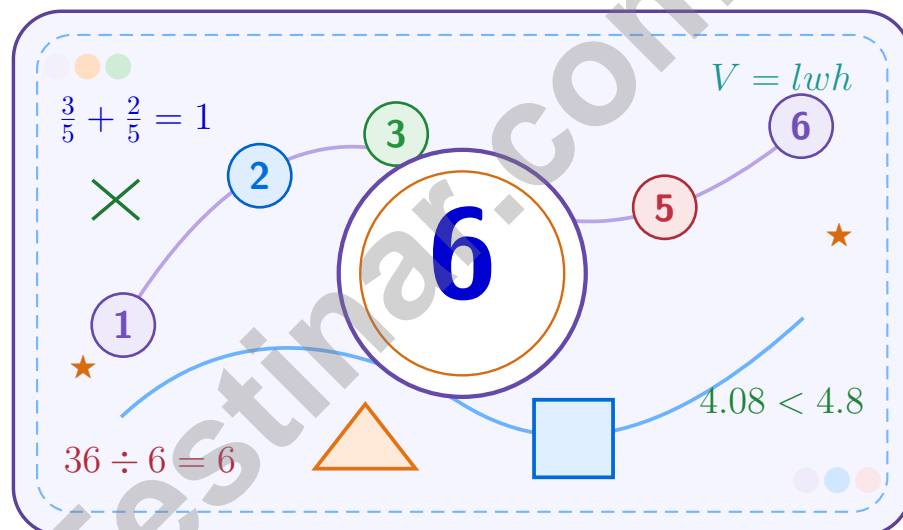
**BUILD CONFIDENCE.
IMPROVE SCORES.**

Target weak areas and
achieve success

★ **STRONG PRACTICE. BRIGHT FUTURE.** ★

6 Kansas KAP Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Kansas KAP. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

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1) Evaluate: $7 \times (3 + 2) - (4 + 1)$

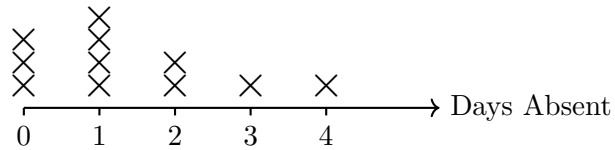
A. 25

C. 35

B. 30

D. 40

2) The line plot shows the number of days students were absent from school:



Which value appears most often?

A. 0 days

C. 2 days

B. 1 day

D. 3 days

3) What is 75×10^2 ?

A. 0.75

C. 7500

B. 750

D. 75000

4) Find the difference: $\frac{4}{5} - \frac{2}{15}$.

Record your answer in the space provided.



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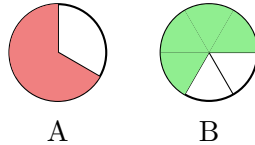


1) Marcus reads $\frac{2}{10}$ of a book on Monday and $\frac{5}{10}$ on Tuesday. What fraction does he read in total?

- A. $\frac{3}{10}$
 B. $\frac{5}{10}$

- C. $\frac{7}{10}$
 D. $\frac{10}{10}$

2) Use fraction circles. Which statement correctly describes the two pictures?



- A. Only Picture A shows $\frac{2}{3}$.
 B. Only Picture B shows $\frac{2}{3}$.

- C. Both show the same amount
 D. Neither

3) What is $8 \div \frac{1}{3}$?

- A. 32
 B. 8

- C. 16
 D. 24

4) A prism has volume 200 m^3 , length 8 m, and width 5 m. Find its height.

Record your answer in the space provided.

5) A student writes $6 \div \frac{1}{3} = \frac{1}{18}$. What is the mistake?

- A. The quotient should be smaller than 6.
 B. The student should count thirds in 6 wholes: $6 \times 3 = 18$.
- C. The expression should be $\frac{1}{3} \div 6$ for this story.
 D. The expression uses addition, not division.



Grade 5 Mathematics Reference Materials

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Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(5.NBT.3b)** Ones and tenths are the same. Compare hundredths: 1.203 has 0, while the others have 3. So 1.203 is least.
- The correct answer is 10000.** **(5.NBT.2)** Think $5 \times 2 = 10$, then include the three zeros from 50 and 200. The product is 10,000.
- Choice C is correct.** **(5.NF.2)** $\frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1$ cup. Since the denominators are the same, add the numerators directly.
- Choice B is correct.** **(5.MD.5)** Use the rectangular-prism volume formula: $5 \times 5 \times 5 = 125$. So the volume is 125 cubic inches.
- Choice B is correct.** **(5.NF.2)** $7\frac{1}{12} \approx 7$ and $2\frac{11}{12} \approx 3$. So $7\frac{1}{12} + 2\frac{11}{12} \approx 7 + 3 = 10$.
- Choice C is correct.** **(5.NBT.4)** The tenths digit is 9. The hundredths digit is 5. Since $5 \geq 5$, round tenths up from 9 to 10, which rolls over to 8.0 (ones digit increases by 1).
- The correct answer is 12.** **(5.NBT.2)** Dividing by 100 removes two zeros: 1,200 \rightarrow 12.
- Choice D is correct.** **(5.NBT.7)** $0.60 \times 3.5 = 2.10$. Multiply $60 \times 35 = 2100$. The factors have $2 + 1 = 3$ decimal places total, so 2100 becomes 2.100, or \$2.10.
- Choice C is correct.** **(5.G.4)** All three sides have the same number of tick marks, meaning all three sides are equal in length. A triangle with all three equal sides is equilateral.
- Choice C is correct.** **(5.NBT.5)** Multiply: $156 \times 6 = (100 \times 6) + (50 \times 6) + (6 \times 6) = 600 + 300 + 36 = 936$.
- Choice A is correct.** **(5.NF.4)** $6 \times \frac{1}{8} = \frac{6}{8} = \frac{3}{4}$ (simplified).
- Choice A is correct.** **(5.NF.1)** Rewrite $1\frac{2}{3}$ as $1\frac{4}{6}$. Then $1\frac{5}{6} + 1\frac{4}{6} = 2 + \frac{9}{6} = 2 + 1\frac{1}{2} = 3\frac{1}{2}$.
- Choice D is correct.** **(5.G.2)** The x-coordinate represents hours studied (5 hours) and the y-coordinate represents the test score (85 points). So the point (5, 85) means a student studied for 5 hours and earned a score of 85.
- Choice B is correct.** **(5.NBT.6)** B is correct because $18 \times 53 + 9 = 954 + 9 = 963$. A should have remainder 0, C should have quotient 19, and D should have remainder 0.
- Choice B is correct.** **(5.G.4)** A square has two pairs of opposite sides parallel, which makes it a parallelogram. In fact, a square is a special type of parallelogram.
- Choice A is correct.** **(5.NBT.7)** Line up decimal points and subtract place by place. $100.00 - 56.25 = 43.75$ dollars. This confirms the answer.
- Choice B is correct.** **(5.MD.5a)** The correct formula is $l \times w \times h = 7 \times 5 \times 4 = 140 \text{ m}^3$, not addition.
- Choices A, B are correct.** **(5.MD.5a)** Both A and B are correct ways to find volume: multiply length, width, and height, or multiply the area of the base by the height. C and D add lengths, so they do not measure cubic space.
- The correct answer is 4.** **(5.NBT.1)** In the number 346,782, the digits from right to left are: ones (2), tens (8), hundreds (7), thousands (6), ten thousands (4), hundred thousands (3). Therefore, the digit in the ten thousands place is 4.
- Choice C is correct.** **(5.OA.2)** Difference: $(14 - 5) = 9$; multiply by 8: $8 \times 9 = 72$.
- Choice D is correct.** **(5.G.2)** Pattern J is twice Pattern W: $3 \times 2 = 6$, $6 \times 2 = 12$, $9 \times 2 = 18$, $12 \times 2 = 24$.
- Choice B is correct.** **(5.NF.4b)** $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$.
- Choice D is correct.** **(5.NF.7c)** All other expressions equal $\frac{1}{20}$: $\frac{1}{4} \div 5 = \frac{1}{20}$, $\frac{1}{5} \div 4 = \frac{1}{20}$, $\frac{1}{10} \div 2 = \frac{1}{20}$. But $\frac{1}{2} \div 5 = \frac{1}{10}$.
- Choice A is correct.** **(5.NF.1)** Common denominator is 8: $13\frac{6}{8} - 6\frac{5}{8} = 7\frac{1}{8}$ ft.
- The correct answer is 84 cubic feet.** **(5.MD.5c)** Subtract the known part from the total: $210 - 126 = 84$ cubic feet. That is the missing part's volume.
- Choice C is correct.** **(5.MD.1)** 1 centimeter = 10 millimeters. Multiply: $25 \times 10 = 250$ mm.
- Choice C is correct.** **(5.OA.1)** The parentheses make $7 - 2 = 5$. Then multiply before adding: $3 \times 5 = 15$, so the expression becomes $15 + 15 = 30$.
- Choice C is correct.** **(5.MD.5)** The base area is $9 \times 8 = 72$ square inches. Divide the volume by the base area: $360 \div 72 = 5$, so the height is 5 in.
- Choice A is correct.** **(5.NF.5a)** Multiplying by $\frac{1}{2}$ makes a number half as large. Half of 10 is 5, so the product lands at 5.



Achievement Unlocked

Hey there, Master Gamer!

★ Level mastery achieved! You've conquered six complete game worlds, defeating mathematical boss battles and collecting skill power-ups like a professional gamer! Each test level presented unique challenges and hidden obstacles, but you've learned the patterns, mastered the controls, and leveled up your abilities significantly. Your character stats are at maximum capacity! ★

◇ **Here's what elite gamers understand:** mastering difficult games requires repeated playthroughs, learning from defeats, and developing strategic thinking. They study level designs, practice timing, and memorize successful strategies. You've done exactly that through these six test levels! You've learned the mathematical game mechanics, and now you're ready for the championship tournament! ◇

Character Stats Maxed Out

Problem-Solving Power: Leveled up to Expert tier through consistent training!

Strategic Thinking: Unlocked advanced tactical abilities through practice!

Endurance Meter: Can maintain focus through extended gaming sessions!

Boss Battle Ready: Prepared to defeat the final test day challenge!

Gaming wisdom: professional players stay calm during competitive matches because they've practiced under pressure. Test day is your championship match. When you encounter a challenging problem-boss, remember your six training sessions. You've defeated tougher enemies before. Use your best strategies, stay focused, and claim victory!

Want to share your gaming strategies or discuss a particularly clever solution combo? Send your achievements to reza@testinar.com. Let's celebrate your wins!

Reza Nazari & Jay Daie

Your Math Coaches for Strong Starts

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



Testinar

Smart Practice. Stronger Results.