

$\frac{2}{3}$

FULL-LENGTH

$\frac{2}{4}$

0,25

Alabama

$7 \times 8 =$



★★★★★
Aligned to State Standards

7×8

ACAP

$56 \div 7$

MATH

Grade

5

$(a+b)^2$

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



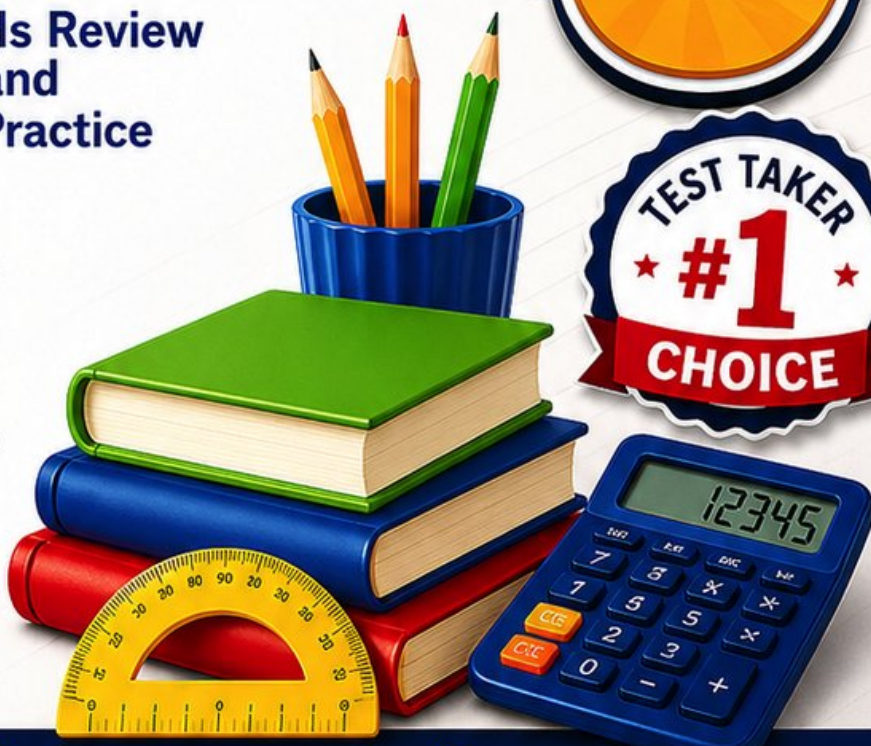
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



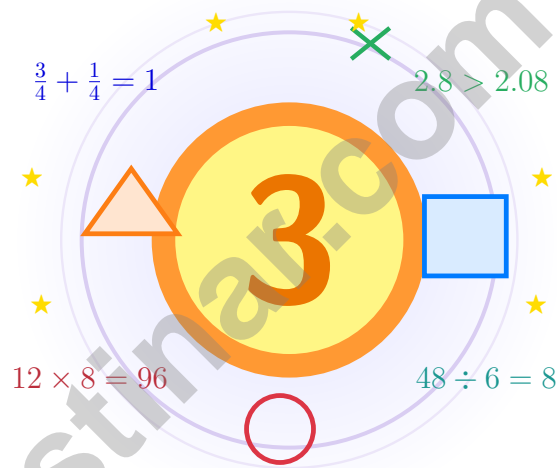
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Alabama ACAP Grade 5 Math Practice Tests

*A brighter way to practice: clear review, thoughtful strategy, and confidence that grows page
by page*



Three full tests, a lively quick review, strategy pages, and student-friendly support that help Grade 5 mathematicians walk in ready to think.

Jay Daie and Reza Nazari



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Welcome to Your Math Training Ground

This book is built for brave thinking, clear work, and steady improvement

To the Grade 5 Problem Solver

Inside this book, you will do more than hunt for answers. You will read carefully, notice patterns, choose smart strategies, and explain your thinking. That is the kind of work real mathematicians do.

Some questions will feel easy right away. Others will make you pause, sketch, estimate, or try again. That is not a problem. That is practice doing its job. Every careful attempt helps your math brain get stronger.

Notice

Look closely at what the problem says, shows, and asks.

Try

Pick a plan and work through it step by step.

Grow

Use every correction as a clue for what to master next.

A powerful promise to yourself: I do not have to know everything at the start. I just need to read carefully, think honestly, and keep working when the math gets interesting.

How to Use This Book

A simple game plan that turns practice into progress

Step 1: Preview

Start with the quick review.

Wake up important ideas before the test begins so your brain is ready to use them.

Step 2: Practice

Take one full practice test.

Work in a calm place and aim for careful choices before quick ones.

Step 3: Reflect

Check your work honestly.

Circle missed questions, sort out what went wrong, and notice which skills want more attention.

Step 4: Level Up

Repair and retry.

Read the explanation, fix the work, and carry that lesson into the next test.

A Strong 3-Week Routine

Week 1	Take Test 1 and learn your starting strengths, not just your starting score.
Week 2	Take Test 2 and give extra attention to places where reading carefully or showing work can help.
Week 3	Take Test 3 and bring forward everything you practiced: calm focus, smart checking, and stronger math habits.



Scan me

Test Overview

What these practice tests help students build

These three practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Alabama ACAP. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly.

Selected-Response Questions

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

Constructed-Response Questions

Students show their steps, explain a method, or support an answer with clear math. Clean reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

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

What strong work looks like: the math is correct, the steps are readable, the labels or units match the problem, and the final answer actually answers the question being asked.



Table of Contents

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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

1 day = 24 hours (hr) 1 year = 52 weeks



1) Subtract: $7\frac{2}{10} - 3\frac{7}{10}$.

A. $3\frac{1}{10}$

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

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

D. $3\frac{1}{2}$

2) A bookstore has 4,500 copies of a book. They will ship them equally to 10 stores. How many books does each store receive?

A. 4.5

B. 45

C. 450

D. 45,000

3) A bookshelf space measures 10 inches long, 3 inches wide, and 3 inches tall. What is its volume?

A. 30 cubic inches

B. 90 cubic inches

C. 9 cubic inches

D. 16 cubic inches

4) A prism has volume 125 ft^3 , length 5 ft, and width 5 ft. Find its height.*Record your answer in the space provided.*5) Add: $\frac{1}{6} + \frac{1}{3}$. Write the answer in simplest form.

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

B. $\frac{2}{9}$

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

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



6) A clothing store has a shirt priced at \$35.99. With a \$5.00 coupon and an additional \$3.60 sale discount, what is the final price?

A. \$24.59

C. \$28.79

B. \$27.39

D. \$30.89

7) Add: $1\frac{1}{6} + 2\frac{2}{6}$

A. $3\frac{1}{2}$

C. $3\frac{5}{6}$

B. $3\frac{2}{6}$

D. $3\frac{4}{6}$

8) A swimming pool has 9 gallons of water for testing. Each sample bottle holds $\frac{1}{4}$ gallon. How many sample bottles can be filled?

9 gallons



each gallon is divided into fourths

A. 30 bottles

C. 48 bottles

B. 36 bottles

D. 84 bottles

9) Find: 135×27 .

Record your answer in the space provided.



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1) Align the decimals and find: $12.3 - 4.56$.

A. 7.74

C. 7.84

B. 7.64

D. 8.24

2) What is the least common multiple of 4 and 6?

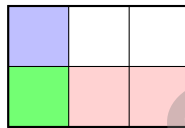
A. 10

C. 24

B. 4

D. 12

3) An area model can show $\frac{1}{2} \times \frac{1}{3}$. What is the product?



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

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

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

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

4) Without calculating, which comparison is correct?

A. $15 \times 8 > 16 \times 8$

B. $24 \times 6 < 24 \times 5$

C. $9 \times 14 = 14 \times 9$

D. $30 \times 3 > 30 \times 4$



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1) Order these products from smallest to largest: $4 \times \frac{1}{4}$, 4×1 , 4×2 .

A. $4 \times 2 < 4 \times 1 < 4 \times \frac{1}{4}$

B. All are equal

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

D. $4 \times \frac{1}{4} < 4 \times 1 < 4 \times 2$

2) $2,478 \div 10 = ?$

A. 24.78

B. 247.8

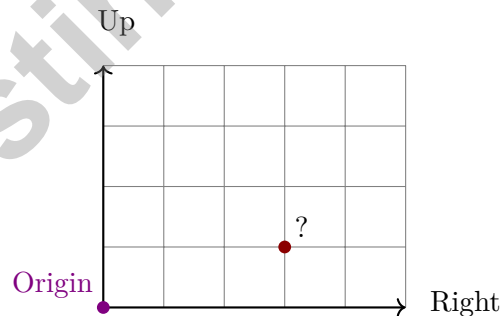
C. 2478

D. 24780

3) Use a model to find $\frac{1}{6} \div 4$. Show or explain your model.

Record your answer in the space provided.

4) Which ordered pair represents the location 3 units right and 1 unit up from the origin?



A. (1, 3)

B. (4, 1)

C. (3, 3)

D. (3, 1)



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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.10) Borrow 1 from 7: $6\frac{12}{10} - 3\frac{7}{10} = 3\frac{5}{10}$. Simplify $\frac{5}{10}$ to $\frac{1}{2}$, so the difference is $3\frac{1}{2}$.
- Choice C is correct.** (5.3) Dividing by a power of 10 shifts the value to a smaller place. $4,500 \div 10 = 450$ books per store. This confirms the answer.
- Choice B is correct.** (5.14) Use the rectangular-prism volume formula: $10 \times 3 \times 3 = 90$. So the volume is 90 cubic inches.
- The correct answer is 5 ft.** (5.14) The base area is $5 \times 5 = 25$ square feet. Since $125 \div 25 = 5$, the height is 5 ft.
- Choice A is correct.** (5.10) Use sixths: $\frac{1}{3} = \frac{2}{6}$. Then $\frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$.
- Choice B is correct.** (5.1) Subtract both discounts from the original price: $35.99 - 5.00 = 30.99$, then $30.99 - 3.60 = 27.39$. The final price is \$27.39.
- Choice A is correct.** (5.10) Add whole parts: $1 + 2 = 3$. Add fractions: $\frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$. Result: $3\frac{1}{2}$.
- Choice B is correct.** (5.14) Each gallon fills 4 quarter-gallon bottles. $9 \div \frac{1}{4} = 9 \times 4 = 36$ bottles.
- The correct answer is 3645.** (5.6) $135 \times 7 = 945$ and $135 \times 20 = 2,700$. Sum: $945 + 2,700 = 3,645$.
- The correct answer is 7.5 m.** (5.17) $750 \div 100 = 7.5$ m. Since 100 centimeters make 1 meter, divide centimeters by 100.
- The correct answer is isosceles.** (5.21) Two side lengths are equal, so Triangle P is isosceles.
- Choice B is correct.** (5.3) Multiplying by 100 shifts the digits in 50 two places to greater place values: $50 \times 100 = 5,000$.
- Choice D is correct.** (5.3) In 1.482, the digit 2 is in the thousandths place, which is the smallest (rightmost) place value. (Ones > tenths > hundredths > thousandths.)
- Choice A is correct.** (5.12) Think of $(35 + 12)$ as one whole amount. The expression $2 \times (35 + 12)$ is two copies of that amount, so one copy is half as large as two copies.
- Choice B is correct.** (5.18) The known length and height make groups of $9 \times 6 = 54$ cubic inches. Since $432 \div 54 = 8$, the width is 8 inches.
- Choice C is correct.** (5.20) The next first coordinate is 4. Use the rule: $4(4) - 2 = 16 - 2 = 14$, so the next point is $(4, 14)$.
- Choice C is correct.** (5.2) The block counts are 2, 4, 6, and so on, so Figure number n has $2n$ blocks. Figure 12 has $2 \times 12 = 24$ blocks.
- Choices A, B are correct.** (5.18) 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.
- Choice B is correct.** (5.8) Total spent: $4.75 + 2.89 = 7.64$. Remaining: $32.58 - 7.64 = 24.94$ dollars.
- Choice D is correct.** (5.14) Start with one unit fraction, $\frac{1}{4}$, and share it into 3 equal parts. Each part is $\frac{1}{4} \div 3 = \frac{1}{12}$ of the whole.
- Choice C is correct.** (5.3) $5.08 \times 1,000 = 5,080$. The digits shift three places to greater place values.
- Choice D is correct.** (5.20) Double each input: input 1 gives 2, input 2 gives 4, and input 3 gives 6.
- Choice B is correct.** (5.12) $\frac{2}{3} \times \frac{3}{4} = \frac{2 \times 3}{3 \times 4} = \frac{6}{12}$, which simplifies to $\frac{1}{2}$.
- The correct answer is $\frac{2}{3}$.** (5.9) Divide both by 6 (the GCF): $\frac{12 \div 6}{18 \div 6} = \frac{2}{3}$.
- Choice A is correct.** (5.10) $\frac{2}{3} = \frac{4}{6}$. $\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$, which simplifies to $\frac{1}{2}$.
- Choice A is correct.** (5.3) When dividing by 100, move the decimal point 2 places to the left: $83.5 \rightarrow 8.35 \rightarrow 0.835$. So $83.5 \div 100 = 0.835$.
- Choice A is correct.** (5.18) Bottom: 9 cubes. Second layer: 6 cubes. Total: $9 + 6 = 15$ unit cubes.
- Choice B is correct.** (5.9) $\frac{4}{9}$ is close to $\frac{1}{2}$, and $\frac{1}{12}$ is small. The sum is just a little more than $\frac{1}{2}$, so $\frac{1}{2}$ is the best benchmark estimate.
- Choice D is correct.** (5.1) Each $(4 + 3)$ equals 7, so $(4 + 3) \times (4 + 3) = 49$. Then $5 \times 49 = 245$, $245 \div 7 = 35$, and $35 + 2 = 37$.
- Choice B is correct.** (5.18) $2 \times 4 \times 3 = 24$ cubic units. Choice A: $2 \times 3 \times 3 = 18$. Choice C: $2 \times 2 \times 5 = 20$. Choice D: $3 \times 3 \times 2 = 18$.



Authors' Notes

From a Friend Who Believes in You

Hi, Brilliant Friend!

◇ I have to tell you something important: I am proud of you. You completed 3 full practice tests. That takes time, focus, and heart. Many students never push themselves like that. You did. That tells me everything about your work ethic. ◇

★ **Here's a friendly reminder:** a test does not measure your worth. It measures one slice of your skills on one day. You are much more than a score. The work you put in to grow—that is the real win. ★

Things I Want You to Remember

- **You are capable.** Every test you finished proves it.
- **You are resilient.** You worked through hard problems.
- **You are growing.** Every mistake taught you something new.
- **You are ready.** The skills are inside you.

One last thing: when you sit down on test day, take a deep breath, smile a tiny smile, and remember that someone (me!) believes in you. You've got this.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Friend (Always in Your Corner)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



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Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



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- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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