

5 FULL-LENGTH Alabama ACAP

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$



$$12 \times 3 = 36$$



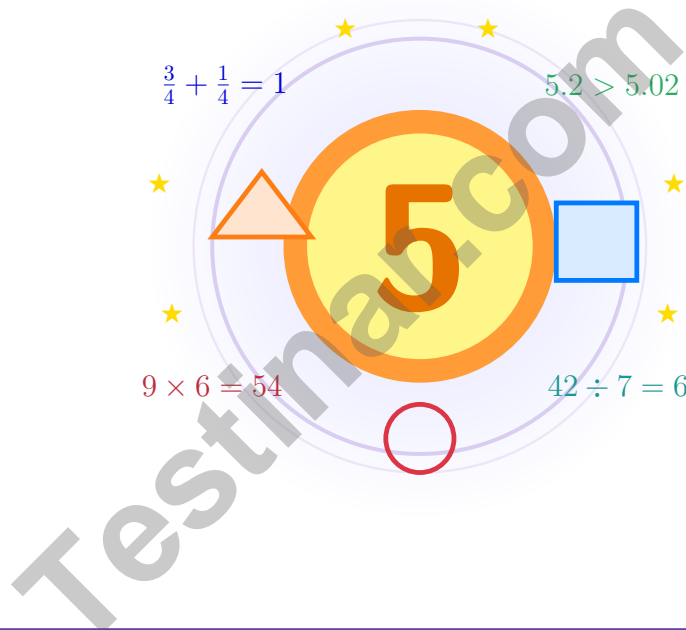
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Alabama ACAP Grade 5 Math Practice Tests

*A five-checkpoint math quest with strategy boosts, quick review, and confidence that grows
from page to page*



Five full tests, a lively quick review, and student-friendly support
that make Grade 5 math practice feel like a real progress adventure.

Jay Daie and Reza Nazari



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Welcome to the Math Quest

Your practice journey starts here, one smart checkpoint at a time

To the Grade 5 Problem Solver

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Notice

Read closely and spot what the problem is really asking.

Try

Pick a plan and work through it one step at a time.

Level Up

Use every correction like a clue for what to practice next.

A strong quest habit: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

How to Use This Book

A simple routine that turns five tests into real growth

Step 1: Power Up

Warm up with the quick review.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Take the Checkpoint

Take one full practice test.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Decode Mistakes

Check your answers honestly.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Bring the Lesson Forward

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



A Five-Week Quest Map

Week	Mission Focus
Week 1	Take Test 1 and learn where you already feel strong. Your first score is a starting point, not a final label.
Week 2	Take Test 2 and compare it with Test 1. Look for growth in neat work, checking, and pacing.
Week 3	Take Test 3 and give extra attention to fractions, decimals, or whichever topic feels the shakiest.
Week 4	Take Test 4 and slow down on multi-step and word-problem questions so your thinking stays clear.
Week 5	Take Test 5 and finish strong with steady confidence, thoughtful checking, and everything you learned from the earlier rounds.



Table of Contents

★ Practice Test 1	_____	18
★ Practice Test 2	_____	33
★ Practice Test 3	_____	48
★ Practice Test 4	_____	65
★ Practice Test 5	_____	80
Practice Test Answer Keys	_____	96
Practice Test Answers and Explanations	_____	100

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.)

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1) What is $3 \div \frac{1}{6}$?

A. 18

C. 9

B. 12

D. 6

2) Which number has a 6 in the hundredths place?

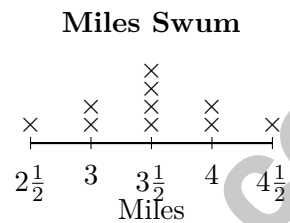
A. 4.687

C. 3.64

B. 6.483

D. 9.061

3) The line plot displays the distance each swimmer swam in a practice, in miles:



How many swimmers swam at least $3\frac{1}{2}$ miles?

A. 4

C. 6

B. 5

D. 7

4) Evaluate: $(18 \div 3) + (2 \times 7)$

A. 19

C. 42

B. 63

D. 20

5) Find the least common denominator of $\frac{5}{12}$ and $\frac{7}{8}$.

Record your answer in the space provided.



- 6) How many times greater is $5 \times (12 + 8)$ than $(12 + 8)$?

Record your answer in the space provided.

- 7) Subtract: $7\frac{4}{6} - 3\frac{2}{6}$

A. $4\frac{2}{6}$

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

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

D. $4\frac{5}{6}$

- 8) A stage block measures 7 centimeters long, 3 centimeters wide, and 3 centimeters tall. What is its volume?

A. 63 cubic centimeters

B. 21 cubic centimeters

C. 9 cubic centimeters

D. 13 cubic centimeters

- 9) A student says that $85.4 \div 10 = 8.54$. Is the student correct?

 A. Correct B. Incorrect; should be 854 C. Incorrect; should be 0.854 D. Incorrect; should be 8,540

- 10) What is $\frac{3}{4} \times \frac{2}{5}$ in simplest form?

A. $\frac{7}{20}$

B. $\frac{3}{10}$

C. $\frac{5}{9}$

D. $\frac{6}{9}$



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- 1) What is the least common denominator for $\frac{5}{12}$ and $\frac{7}{9}$?
- A. 36 C. 108
 B. 21 D. 48
- 2) At the start of the day, a thermometer reads 72.45°F . By evening, it drops to 58.13°F . What is the temperature change?
- A. 14.32°F C. 13.58°F
 B. 14.58°F D. 15.42°F
- 3) Evaluate: $[(8 + 2) \times (6 - 3)] - 10$
- A. 20 C. 35
 B. 30 D. 40
- 4) Which is the greatest product?
- A: $20 \times \frac{3}{4}$ B: 20×1 C: $20 \times \frac{5}{4}$
- A. A C. A and C are equal
 B. B D. C
- 5) Compare: $\frac{500}{20}$ $\frac{500}{25}$
- A. $>$ C. $=$
 B. $<$ D. Cannot tell
- 6) A recipe calls for 2.4 cups of flour. If you make one-tenth of the recipe, how many cups of flour do you need?
- A. 24 cups C. 0.24 cups
 B. 2.4 cups D. 0.024 cups



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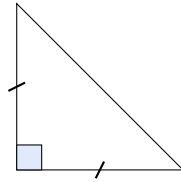
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1) Look at the triangle below. How should it be classified?



A. Isosceles obtuse

B. Scalene acute

C. Equilateral right

D. Isosceles right

2) “Three more than the product of 5 and 4” equals:

A. $5 \times 4 \times 3$

B. $5 \times (4 + 3)$

C. $(3 + 5) \times 4$

D. $3 + 5 \times 4$



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- 1) The model shows $\frac{1}{9}$ of a whole split into 4 equal parts. What fraction of the whole is each small part?

$\frac{1}{9}$ split into 4



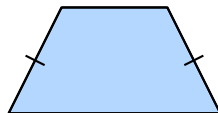
1 whole split into 9 equal parts

- A. $\frac{1}{9}$
 C. $\frac{1}{4}$
 B. $\frac{1}{36}$
 D. $\frac{1}{13}$
- 2) Which subtraction requires borrowing?
- A. $5\frac{4}{5} - 1\frac{2}{5}$
 C. $9\frac{1}{6} - 4\frac{5}{6}$
 B. $8\frac{2}{7} - 3\frac{1}{7}$
 D. $6\frac{3}{4} - 2\frac{1}{4}$

- 3) Find: $9.5 + 0.67 + 1.2$.

Record your answer in the space provided.

- 4) Which pair of line segments are congruent in this figure?



- A. Top and bottom sides
 C. All four sides
 B. Left and right sides
 D. No sides are congruent



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 A is correct.** (5.15) $3 \div \frac{1}{6} = 3 \times 6 = 18$.
- Choice D is correct.** (5.3) In 9.061, the digit 0 is in the tenths place, 6 is in the hundredths place, and 1 is in the thousandths place. So the digit 6 is in the hundredths place.
- Choice D is correct.** (5.15) Count X marks at $3\frac{1}{2}$, 4, and $4\frac{1}{2}$ miles. That is $4 + 2 + 1 = 7$ swimmers.
- Choice D is correct.** (5.1) Each parenthesis can be solved separately: $18 \div 3 = 6$ and $2 \times 7 = 14$. Add those results to get $6 + 14 = 20$.
- The correct answer is 24.** (5.9) The least common multiple of 12 and 8 is 24.
- The correct answer is 5.** (5.12) The expression $12 + 8$ is one amount. Multiplying it by 5 makes 5 copies of that amount, so the answer is 5.
- Choice A is correct.** (5.10) $7 - 3 = 4$ and $\frac{4}{6} - \frac{2}{6} = \frac{2}{6}$. Result: $4\frac{2}{6}$.
- Choice A is correct.** (5.14) Use the rectangular-prism volume formula: $7 \times 3 \times 3 = 63$. So the volume is 63 cubic centimeters.
- Choice A is correct.** (5.3) Dividing by 10 moves the decimal one place left, so 85.4 becomes 8.54. The student's result is correct.
- Choice B is correct.** (5.12) $\frac{3}{4} \times \frac{2}{5} = \frac{6}{20} = \frac{3}{10}$ (divide by 2).
- The correct answer is $9\frac{3}{5}$.** (5.13) $\frac{4}{5} \times 12 = \frac{48}{5} = 9\frac{3}{5}$. Since $\frac{4}{5} < 1$, the product is a little less than 12.
- Choice A is correct.** (5.20) Position 3: Item 1 is 10, 14, 18 (third is 18); Item 2 is 5, 7, 9 (third is 9). The coordinate point is (18, 9).
- Choice B is correct.** (5.14) Add the weights shown by the line plot: $\frac{1}{2} + 2\left(\frac{3}{4}\right) + 3(1) + 4\left(1\frac{1}{4}\right) = \frac{1}{2} + 1\frac{1}{2} + 3 + 5 = 10$ pounds.
- Choice B is correct.** (5.12) $\frac{1}{4} \times 32 = \frac{32}{4} = 8$ students wear blue.
- Choice D is correct.** (5.18) Second project uses $\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$ of the original roll.
- Choice A is correct.** (5.12) The interval $\frac{1}{5}$ is split into 3 equal pieces. Each piece is $\frac{1}{5} \div 3 = \frac{1}{5} \times \frac{1}{3} = \frac{1}{15}$.
- Choice A is correct.** (5.1) Choose the operation from the story, then keep the unit with the answer. Divide: $42 \div 0.6 = 70$ bags. This confirms the answer.
- Choice D is correct.** (5.18) The known width and height make groups of $5 \times 4 = 20$ cubic units. Since $120 \div 20 = 6$, the length is 6 units.
- Choice A is correct.** (5.6) $19 \times 22 = 19 \times (20 + 2) = (19 \times 20) + (19 \times 2) = 380 + 38 = 418$. Kai's work and total are correct.
- Choice D is correct.** (5.10) LCD = 18. $\frac{5}{9} = \frac{10}{18}$; $\frac{1}{6} = \frac{3}{18}$. $\frac{10}{18} - \frac{3}{18} = \frac{7}{18}$.
- Choices A, B are correct.** (5.12) A and B both start with twice 9 and then take away 7. C puts the 7 first, and D subtracts before doubling, so those do not match the words.
- Choice C is correct.** (5.14) Green: $\frac{1}{8} \times 72 = 9$. Red: $\frac{1}{3} \times 72 = 24$. Total green and red: $9 + 24 = 33$. Yellow: $72 - 33 = 39$ apples.
- Choice D is correct.** (5.3) $23 \times 10 = 230$, then $230 \times 10 = 2300$. Or $23 \times 10^2 = 2300$.
- Choice D is correct.** (5.14) The question counts how many fourth-size pieces fit in 3 wholes. So the matching division equation is $3 \div \frac{1}{4} = ?$.
- Choice D is correct.** (5.3) 700×600 has the most factor zeros. Since $7 \times 6 = 42$, those four factor zeros make 420,000, which has more zeros than the other choices.
- The correct answer is 3 sides.** (5.23) An equilateral triangle has 3 equal sides and 3 vertices. A square has 4 sides and 4 vertices, so the number of sides or vertices tells the shapes apart.
- Choice B is correct.** (5.20) Both points have the same y -coordinate (6), forming a horizontal line. The distance is $9 - 1 = 8$ units.
- Choice A is correct.** (5.5) $0.54 > 0.5$, so it is not between 0.4 and 0.5. The others all satisfy $0.4 < x < 0.5$.



Hello, Ace Pilot!

★ Flight certification complete! You've successfully piloted through five complete training missions, navigating mathematical turbulence and landing solutions with expert precision like a certified pilot! Each test was a flight through different conditions, and you demonstrated excellent navigation skills, situational awareness, and steady control throughout. You're cleared for your important test day flight!

★

◇ **Here's what experienced pilots understand:** they complete hundreds of hours of flight training before flying solo. They practice procedures until they become automatic responses. You've logged those training hours through these five tests! Your mathematical flight skills have become so developed that you'll navigate test day smoothly and confidently! ◇

Pre-Flight Clearance Report

- **Navigation Systems:** All problem-solving instruments calibrated and functioning!
- **Weather Assessment:** You can handle any mathematical conditions that arise!
- **Emergency Procedures:** You know how to respond when encountering difficult questions!
- **Flight Approved:** Tower clears you for test day takeoff!

Remember this aviation principle: pilots stay calm because they trust their training. When you encounter turbulence on test day, remember your five training missions. You've already experienced challenging questions and navigated successfully through them. Use your instruments (strategies), trust your training, and fly confidently toward your destination!

Want to share flight logs or discuss interesting mathematical air traffic patterns? Send transmissions to reza@testinar.com. Your control tower is listening!

Reza Nazari & Jay Daie

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5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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



SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

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



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Step-by-step explanations for every question to help students learn and improve.



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Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
test success



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