

7

Alabama

ACAP

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



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

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



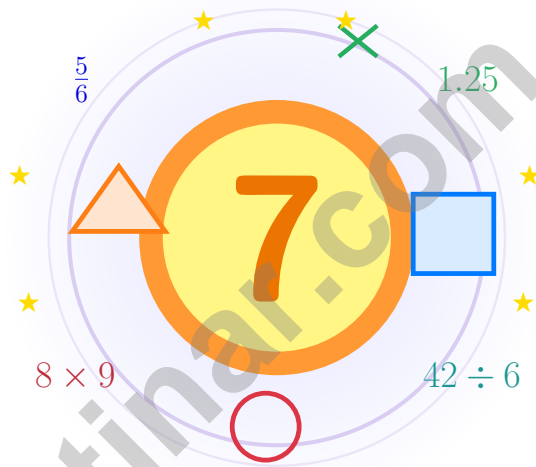
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Alabama ACAP Grade 5 Math Practice Tests

Fresh practice, focused review, and steady confidence for Grade 5



Seven full tests, a concise review section, and helpful support from the first page to the final check.

Jay Daie and Reza Nazari



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Welcome!

This book is your practice space, not a pressure space

Dear Grade 5 Mathematician

This book gives you seven chances to practice the kind of thinking you need for Grade 5 math. Some questions will feel friendly right away. Some will ask you to slow down and think harder. Both kinds help you grow.

The goal is not to be perfect on the first try. The goal is to read carefully, choose a smart strategy, learn from mistakes, and build steady confidence one test at a time.

Think

Read and make a plan.

Solve

Show your steps with care.

Grow

Use every correction as a lesson.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard question ruin the page. Keep moving.

How to Use This Book

A simple routine that turns practice into progress

Step 1

Warm up with a quick review.

Spend a few minutes waking up your memory before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and focus on careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which topics keep showing up.

Step 4

Fix, reflect, and try again.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Rhythm

Week 1	Take Test 1 and notice your strongest starting skills.
Week 2	Take Test 2 and focus on slowing down on word problems.
Week 3	Take Test 3 and sharpen fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 and finish with steady, confident work.



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Test Overview

What these practice tests help you practice well

These seven practice tests are designed to help Grade 5 students get comfortable with the kind of math thinking used on the Alabama ACAP. The goal is bigger than choosing the right answer. The goal is to read carefully, choose a strategy, solve step by step, and explain your thinking clearly.

Selected-Response Questions

You solve the problem and choose the best answer. Good habits still matter: estimate first, cross out weak choices, and check that the answer makes sense.

Constructed-Response Questions

You show your steps, model your thinking, or explain how you solved the problem. Clear work can help you organize your ideas and avoid careless mistakes.

Grade 5 Skills You Will See Again and Again

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

What strong work looks like: correct math, neat steps, the right unit or label, and a final answer that matches the question.



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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) A scientist records 0.023 grams. If the scale multiplies this by 10^2 , what is the result?

- A. 0.23 g C. 23 g
 B. 2.3 g D. 230 g

2) Estimate $5\frac{1}{6} + 2\frac{7}{8}$ by rounding each mixed number to the nearest whole number.

Record your answer in the space provided.

3) Compare: $(25 + 8) \times 0$ $(25 + 8) \times 1$

- A. > C. =
 B. < D. Cannot tell

4) A tank is $\frac{7}{8}$ full. After using $\frac{3}{8}$ for watering plants, how much remains?

- A. $\frac{2}{8}$ C. $\frac{5}{8}$
 B. $\frac{10}{8}$ D. $\frac{1}{2}$

5) A student writes $\frac{1}{4} \div 3 = \frac{3}{4}$. What is the mistake?

- A. The student should multiply by 3 to make a larger amount. C. Sharing $\frac{1}{4}$ among 3 groups gives $\frac{1}{12}$, not $\frac{3}{4}$.
 B. The expression should be $3 \div \frac{1}{4}$ for sharing one fourth. D. The answer should be 12.



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1) Evaluate: $(4 \times 5) + (12 \div 3)$

A. 12

C. 24

B. 20

D. 32

2) Estimate: $\frac{6}{7} + \frac{4}{9} + \frac{1}{10}$.

A. About 1

C. About 2

B. About $1\frac{1}{2}$

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

3) A composite stage platform is made from two non-overlapping rectangular prisms. Prism A is 4 centimeters long, 2 centimeters wide, and 2 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 1 centimeter tall. What is the total volume?

A. 25 cubic centimeters

C. 9 cubic centimeters

B. 16 cubic centimeters

D. 33 cubic centimeters

4) Which student added correctly?

Student	Work for $4.28 + 2.35$
Maya	$4.28 + 2.35 = 6.53$
Chen	$4.28 + 2.35 = 6.63$
Aisha	$4.28 + 2.35 = 6.73$
Jordan	$4.28 + 2.35 = 6.43$

A. Maya

C. Aisha

B. Chen

D. Jordan



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1) Which expression matches a rectangular prism with length 7 units, width 3 units, and height 5 units?

A. $7 + 3 + 5$

B. $7 \times 3 \times 5$

C. $7 \times (3 + 5)$

D. $(7 + 3) \times 5$

2) The diagram shows the place value of each digit. Which number is represented?

Ones	Tenths	Hundredths	Thousandths
3	2	5	7

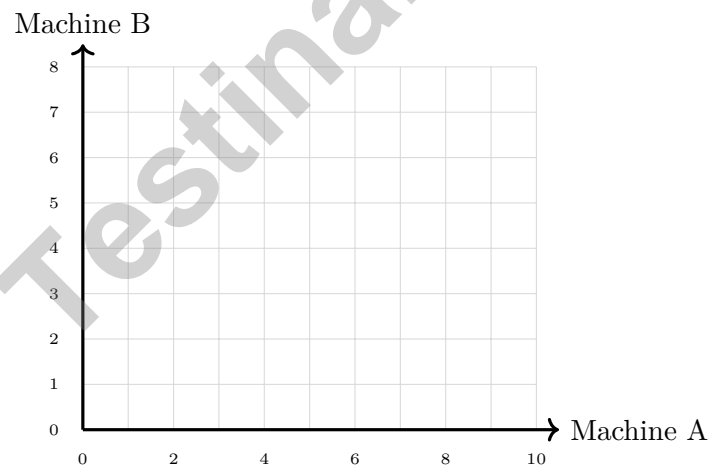
A. 32.57

B. 3.257

C. 325.7

D. 0.257

3) Two input-output machines create a pattern. Machine A multiplies by 2. Machine B adds 1. For inputs 1, 2, 3, 4, which point should be plotted for input 3 as (Machine A output, Machine B output)?



A. (8, 5)

B. (4, 3)

C. (2, 2)

D. (6, 4)



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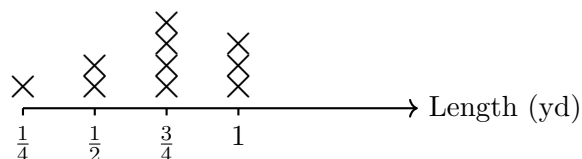
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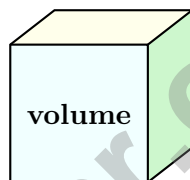


- 1) The line plot shows lengths of fabric pieces, in yards:



How much longer in all are the $\frac{3}{4}$ -yard pieces than the $\frac{1}{2}$ -yard pieces?

- A. $\frac{1}{2}$ yard C. 2 yards
 B. 1 yard D. 3 yards
- 2) Which statement correctly identifies what cubic units measure?



cubic units

- A. The perimeter of a solid C. The distance around the base
 B. The surface of the object D. The amount of space inside a 3D solid
- 3) A water tank holds 150 liters. On Monday, 47.5 liters are used. On Tuesday, 38.25 liters are used. How many liters remain?
- A. 54.5 liters C. 74.75 liters
 B. 64.25 liters D. 85.75 liters
- 4) Which is greater: $\frac{3}{5}$ or $\frac{2}{3}$? By how much?

- A. $\frac{3}{5}$ by $\frac{1}{15}$ C. Equal
 B. $\frac{3}{5}$ by $\frac{1}{2}$ D. $\frac{2}{3}$ by $\frac{1}{15}$



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

- 1) **Choice B is correct.** (5.3) $0.023 \times 100 = 2.3$ (move decimal 2 places right).
- 2) **The correct answer is about 8.** (5.9) $5\frac{1}{6} \approx 5$ and $2\frac{7}{8} \approx 3$, so the sum is about 8. Accept equivalent estimates that are clearly close to 8.
- 3) **Choice B is correct.** (5.12) The left expression has 0 copies of $(25 + 8)$, while the right expression has 1 copy. One copy is greater than zero copies.
- 4) **Choice D is correct.** (5.9) $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$ of the tank.
- 5) **Choice C is correct.** (5.14) When a small amount is shared, each part gets smaller. One fourth split into 3 equal parts is $\frac{1}{12}$.
- 6) **Choice A is correct.** (5.8) $3.6 \div 3 = 1.2$ m. Divide $36 \div 3 = 12$, then place decimal one place from right.
- 7) **Choice B is correct.** (5.12) Check by multiplying: $3 \times 3\frac{1}{2} = 3\frac{1}{2} + 3\frac{1}{2} + 3\frac{1}{2} = 10\frac{1}{2}$. So the missing factor is 3.
- 8) **Choice D is correct.** (5.14) The repeated part is $\frac{1}{4}$ mile. $5 \div \frac{1}{4} = 5 \times 4 = 20$, so she can plan 20 repeats.
- 9) **Choice D is correct.** (5.3) The fact $4 \times 2 = 8$ stays the same. In 40×200 , the factors have three zeros total, so the missing value is 8,000.
- 10) **Choice A is correct.** (5.12) The quotient of 20 and 4 is $20 \div 4$. The phrase asks for the sum of 7 and that quotient, so use $7 + 20 \div 4$.
- 11) **Choice D is correct.** (5.20) The first three points have second coordinates 3 more than the first. For $(4, 8)$, $4 + 3 = 7$, not 8.
- 12) **Choice A is correct.** (5.12) $\frac{1}{7} \times \frac{3}{4} = \frac{1 \times 3}{7 \times 4} = \frac{3}{28}$.
- 13) **Choice C is correct.** (5.20) A point directly above Point A has the same x-coordinate but a larger y-coordinate. Of the choices, only $(3, 9)$ has $x = 3$ and a y-value greater than 5.
- 14) **Choice B is correct.** (5.20) The first coordinate, 12, matches the x-axis label: hours. The second coordinate, 360, matches the y-axis label: parts made. So the point means parts made is 360 when hours is 12.
- 15) **The correct answer is 2.** (5.18) $30 \div (5 \times 3) = 30 \div 15 = 2$.
- 16) **The correct answer is 1.** (5.22) The description says exactly one pair of parallel sides, so the answer is 1 pair.
- 17) **Choice D is correct.** (5.22) A square is both a rectangle and a rhombus, so it belongs in the intersection.
- 18) **Choice D is correct.** (5.14) Start with one unit fraction, $\frac{1}{5}$, and share it into 2 equal parts. Each part is $\frac{1}{5} \div 2 = \frac{1}{10}$ of the whole.
- 19) **Choice C is correct.** (5.14) The base area times the height gives the volume. Since $360 \div 45 = 8$, the height is 8 cm.
- 20) **Choice A is correct.** (5.3) A is true. B, C, and D do not match the stated products.
- 21) **Choice A is correct.** (5.12) The second expression is the first expression with 50 added. That means the first expression is 50 less than the second one.
- 22) **Choices A, B are correct.** (5.3) $500 \div 10 = 50$ and $7,000 \div 1,000 = 7$. C should be 90, and D should be 40.
- 23) **Choice B is correct.** (5.18) $5 \times 4 \times 9 = 20 \times 9 = 180 \text{ cm}^3$.
- 24) **Choice A is correct.** (5.7) $1,232 \div 16 = 77$ pounds per animal. Check: $16 \times 77 = 1,232$.
- 25) **Choice B is correct.** (5.13) $12 \times \frac{3}{4} = 9$ miles. Since $\frac{3}{4} < 1$, the product is less than 12.
- 26) **Choice D is correct.** (5.17) 1 km = 1,000 m. Multiply: $42 \times 1000 = 42,000$ m.
- 27) **Choice A is correct.** (5.17) Since 1 pound = 16 ounces, multiply 7 by 16: $7 \times 16 = 112$ ounces.
- 28) **The correct answer is 114 m³.** (5.18) The first prism is $7 \times 3 \times 4 = 84$ cubic meters. The second is $5 \times 3 \times 2 = 30$ cubic meters. Together they make 114 cubic meters.
- 29) **Choice B is correct.** (5.10) LCD = 24. $\frac{7}{8} = \frac{21}{24}$, $\frac{1}{3} = \frac{8}{24}$, $\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$.
- 30) **Choice D is correct.** (5.18) A, B, and C each give 180 cm^3 . D gives $90 \times 3 = 270 \text{ cm}^3$, so D does not give 180 cm^3 .
- 31) **Choice A is correct.** (5.20) The phrase means double x and then add 5. For $x = 2$, $2 \times 2 + 5 = 4 + 5 = 9$, so $(2, 9)$ works.



Hello, Mathematician!

★ You completed seven practice tests, and that means you practiced accuracy. Accuracy is the skill of getting the details right—place value, signs, units, and careful reading. ★

◇ **A helpful truth:** most missed points come from small errors, not big ones. The good news is that small errors are fixable—especially when you check your work. ◇

My Accuracy Check

- **Digits:** did I copy numbers correctly?
- **Operation:** did I choose the correct operation?
- **Units:** does the answer match the unit in the question?
- **Reasonable:** does the answer make sense?

You've trained your brain to be careful. Bring that same careful thinking to test day—you'll do great.

Reach me at reza@testinar.com if you want to share your progress.

Reza Nazari & Jay Daie

Your Math Coaches (Be Accurate)

PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



Visit testinar.com/math5 for more Grade 5 math resources and practice materials!



TRUSTED
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Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.