

10 COMPLETE

Alabama

ACAP

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



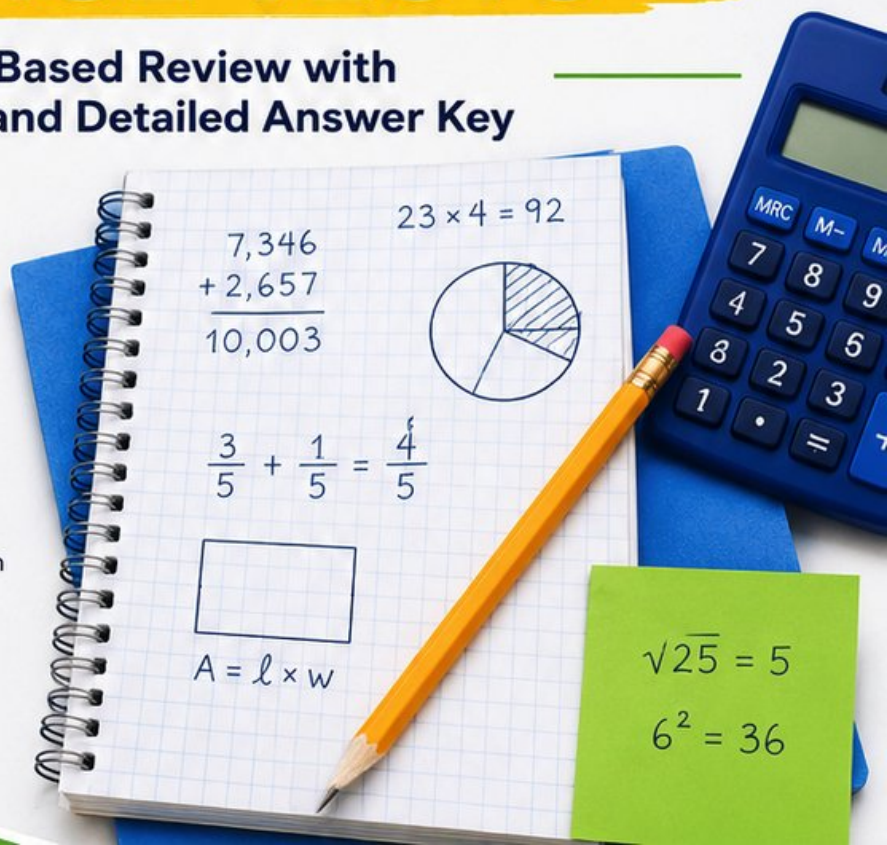
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

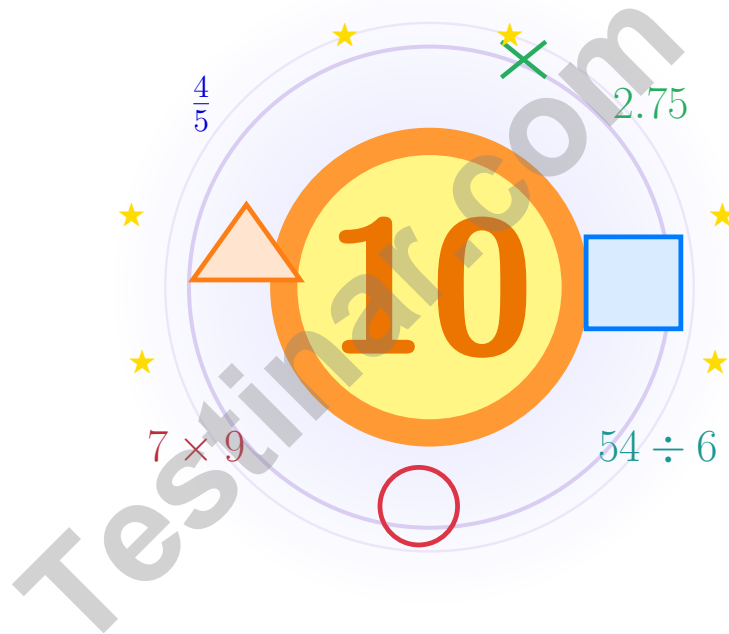
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Alabama ACAP Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



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How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

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



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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) **Error Analysis:** A student found that a box with volume 144 in^3 , length 6 in, and width 6 in has height 6 in. Is the student correct?
- A. Yes, all sides are 6 in C. No; height is 5 in
 B. No; height is 4 in D. No; height is 3 in
- 2) A composite bookcase base is made from two non-overlapping rectangular prisms. Prism A is 4 feet long, 2 feet wide, and 5 feet tall. Prism B is 3 feet long, 5 feet wide, and 3 feet tall. What is the total volume?
- A. 40 cubic feet C. 85 cubic feet
 B. 45 cubic feet D. 93 cubic feet
- 3) Without multiplying exactly, will $\frac{7}{6} \times 8$ be greater than, less than, or equal to 8? Explain briefly, then find the product. Record both the comparison and the product.

Record your answer in the space provided.

- 4) Add: $1\frac{5}{12} + 2\frac{7}{12}$
- A. $3\frac{1}{2}$ C. 4
 B. $3\frac{7}{12}$ D. $4\frac{1}{12}$



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1) What is $\frac{12}{15}$ in simplest form?

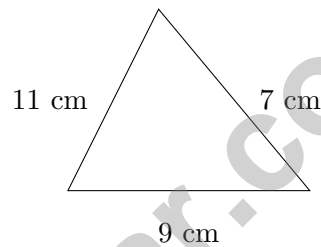
- A. $\frac{3}{4}$
 B. $\frac{4}{5}$

- C. $\frac{6}{7}$
 D. $\frac{2}{3}$

2) Kelly wrote $5 + (6 \times 8)$. Which sentence best describes her expression?

- A. Add 5 to the product of 6 and 8
 B. Multiply 5 and 6, then add 8
 C. Subtract 5 from 6×8
 D. Divide 6×8 by 5

3) A triangle has sides of 9 cm, 11 cm, and 7 cm. What can you say based on its side lengths?



- A. Isosceles; two sides are equal
 B. Scalene; all sides are different
 C. Equilateral; all sides are equal
 D. Right; one angle is 90°

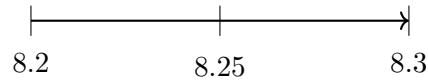
4) Without calculating, compare: $(12 + 4) \times 10$ $(12 + 4) \times 9$

- A. $>$
 B. $<$

- C. $=$
 D. Cannot tell



38) Which decimal rounds to 8.3 when rounding to the nearest tenth?



- A. 8.24 C. 8.35
 B. 8.29 D. 8.36

39) Which statement best describes $12 + 6 \times 4$ compared to $(12 + 6) \times 4$?

- A. First is larger
 B. Cannot tell
 C. They are equal
 D. Second is larger

40) Three athletes run different distances:

Athlete	Distance (km)
Alex	7.25
Jordan	8.5
Casey	6.75

What is the total distance run in meters?

- A. 2,250 meters C. 22,500 meters
 B. 7,500 meters D. 225,000 meters

End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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.** (5.14) Check the student's height: $6 \times 6 \times 6 = 216$, not 144. The base area is $6 \times 6 = 36$ square inches, and $144 \div 36 = 4$, so the height is 4 in.
- Choice C is correct.** (5.18) Find each part first: Prism A is $4 \times 2 \times 5 = 40$ cubic feet, and Prism B is $3 \times 5 \times 3 = 45$ cubic feet. Because the parts do not overlap, add them: $40 + 45 = 85$ cubic feet.
- The correct answer is > 8 ; $9\frac{1}{3}$.** (5.13) A complete response should explain that $\frac{7}{6} > 1$, so the product is greater than 8. Then compute $\frac{7}{6} \times 8 = \frac{56}{6} = \frac{28}{3} = 9\frac{1}{3}$.
- Choice C is correct.** (5.10) Add: $1\frac{5}{12} + 2\frac{7}{12} = 3\frac{12}{12} = 4$.
- Choice B is correct.** (5.2) Rule: Output = $5 \times$ Input $- 1$. When input is 5: $5 \times 5 - 1 = 24$.
- Choice D is correct.** (5.10) $4\frac{3}{8} - 1\frac{1}{8} = 3\frac{2}{8}$, and $\frac{2}{8}$ simplifies to $\frac{1}{4}$.
- Choice A is correct.** (5.18) Set X: $2 \times 2 \times 2 = 8$ cubic units. Set Y: $1 \times 2 \times 1 = 2$ cubic units. Since $8 > 2$, Set X gives the larger volume.
- Choice A is correct.** (5.20) Pattern B is twice the term number. For $n = 1, 2, 3$, the B-values are 2, 4, 6, giving (1, 2), (2, 4), (3, 6).
- The correct answer is $\frac{1}{12}$.** (5.12) $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$.
- Choice D is correct.** (5.12) $1\frac{3}{4} = \frac{1 \times 4 + 3}{4} = \frac{7}{4}$. Then $\frac{7}{4} \times 2 = \frac{14}{4} = 3\frac{1}{2}$.
- Choice B is correct.** (5.8) Subtract the scene time from the total time: $2.45 - 1.25 = 1.20$. The rest of the movie lasts 1.20 hours.
- Choice D is correct.** (5.14) The base layer has $6 \times 5 = 30$ square units. Divide the volume by the base area: $150 \div 30 = 5$, so the height is 5 meters.
- The correct answer is about 1.5.** (5.9) $\frac{7}{8} \approx 1$ and $\frac{4}{9} \approx \frac{1}{2}$, so the estimate is $1\frac{1}{2}$. Accept $1\frac{1}{2}$, 1.5, or a clearly equivalent benchmark estimate.
- Choice B is correct.** (5.10) LCD = 14. $\frac{5}{7} = \frac{10}{14}$, $\frac{1}{2} = \frac{7}{14}$. $\frac{10}{14} - \frac{7}{14} = \frac{3}{14}$.
- Choice A is correct.** (5.17) Since 1 pint = 2 cups, multiply 4 by 2: $4 \times 2 = 8$ cups.
- Choice D is correct.** (5.14) $\frac{2}{3} \times 3 = \frac{6}{3} = 2$ dollars.
- Choice C is correct.** (5.1) Choose the operation from the story, then keep the unit with the answer. Subtract: $250 - 165.5 = 84.5$ liters needed. This confirms the answer.
- Choice A is correct.** (5.18) Total volume: $4 \times 3 \times 2 = 24$ cubes. Already placed: 15. Needed: $24 - 15 = 9$ unit cubes.
- The correct answer is 0.7.** (5.5) Hundredths digit is 4, less than 5, so the tenths digit stays at 7: 0.7.
- Choice B is correct.** (5.12) $\frac{4}{9} \times \frac{3}{5} = \frac{12}{45} = \frac{4}{15}$ (divide by 3).
- Choices A, B are correct.** (5.17) Convert first: 3 L is 3,000 mL. Since $3000 \div 250 = 12$, 12 glasses fill the pitcher; C and D use the wrong count or conversion.
- Choice C is correct.** (5.22) A rhombus has four equal sides. If it is not a square, it does not have four right angles.
- Choice D is correct.** (5.15) There are 2 strings that are $1\frac{1}{4}$ feet long, so the total is $1\frac{1}{4} + 1\frac{1}{4} = 2\frac{1}{2}$ feet.
- The correct answer is $33\frac{3}{4}$ in.** (5.14) $2(5\frac{1}{2}) + 1(5\frac{1}{2}) + 3(5\frac{3}{4}) = 10\frac{1}{2} + 5\frac{1}{2} + 17\frac{1}{4} = 33\frac{3}{4}$ in.
- Choice D is correct.** (5.5) Shortest time = fastest. Compare: $6.204 < 6.24 < 6.402 < 6.42$. Dana's time of 6.204 s is shortest.
- Choice C is correct.** (5.10) LCM(3,5) = 15. $\frac{2}{3} = \frac{10}{15}$ and $\frac{3}{5} = \frac{9}{15}$. $\frac{10}{15} + \frac{9}{15} = \frac{19}{15} = 1\frac{4}{15}$.
- Choice A is correct.** (5.4) In 0.68, the 6 is in the tenths place (0.1) and the 8 is in the hundredths place (0.01): $6 \times 0.1 + 8 \times 0.01 = 0.68$.
- Choice A is correct.** (5.21) A triangle with three equal side lengths is equilateral.
- Choice D is correct.** (5.15) $8 \div \frac{1}{4} = 8 \times 4 = 32$. She can water 32 plants.
- Choice A is correct.** (5.12) Two jumps of $\frac{3}{4}$ each: $2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$ (simplified).



Strong Climber, Listen Up!

◇ You did it. You climbed all 10 practice tests like a steady mountain climber—one foothold, one breath, one step at a time. The view from the top is wonderful because you earned it. Test day is the next peak, and you are stronger than the climber you were when you started. ◇

★ **Here is what mountain guides teach:** pacing matters more than speed. Take steady steps. Check your footing. Keep your eyes on the path. The same wisdom helps on a math test: read carefully, work calmly, and check your work before you move on. ★

Climber's Field Notes

- **Endurance:** STRONG! You can finish a long climb without losing focus.
- **Footwork:** STEADY! Your steps (your steps in problem-solving) are reliable.
- **Map Reading:** CLEAR! You read questions carefully before you start.
- **Summit Mindset:** READY! You know how to push through the last stretch.

Field tip: on test day, take small breaths between problems. Each problem is a foothold. Take it. Move on. Take the next. That is how mountains get climbed—and how tests get conquered.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Guide (Onward and Upward)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

COMPLETE PRACTICE TESTS

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- ✓ Results-Driven.

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Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

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Improve Test Readiness

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Track Progress

Identify strengths and target areas with purposeful practice.



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COVERS ALL ESSENTIAL TOPICS

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- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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