

9

Arkansas

ATLAS

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9

FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



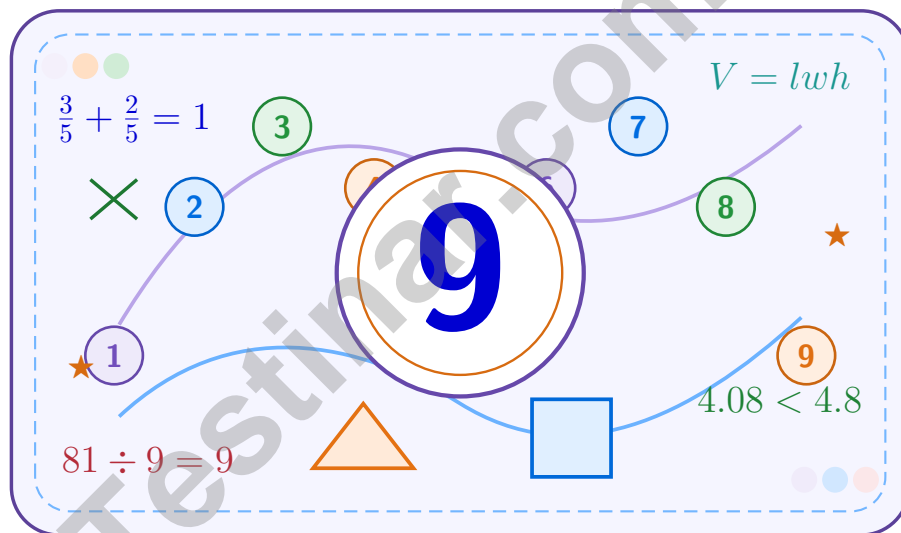
Improve Math Skills



Achieve Success

9 Arkansas ATLAS Grade 5 Math Practice Tests

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



Nine full tests, focused skill boosters, 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 nine 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 nine tests into steady growth

A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

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.



Scan me

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 Arkansas ATLAS. 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 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)

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WEIGHT AND MASS

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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) What is 23×11 ?

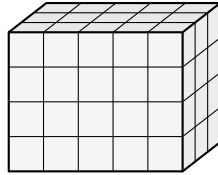
A. 245

C. 261

B. 253

D. 269

2) A rectangular prism has 5 unit cubes along its length, 3 along its width, and 4 along its height. Find the volume.



A. 30 unit cubes

C. 60 unit cubes

B. 45 unit cubes

D. 12 unit cubes

3) The model shows $\frac{1}{5}$ of a whole split into 5 equal parts. What fraction of the whole is each small part?

$\frac{1}{5}$ split into 5



1 whole split into 5 equal parts

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

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

B. $\frac{1}{10}$

D. $\frac{1}{25}$

4) A rectangular fish tank has a base of 6 inches by 4 inches. If the tank is 5 inches tall, what is its volume?

A. 100 in^3

C. 120 in^3

B. 110 in^3

D. 150 in^3



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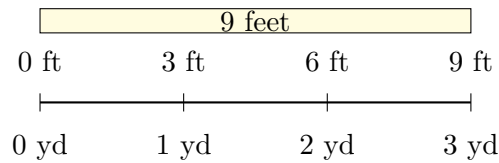
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1) How many yards are in 9 feet?

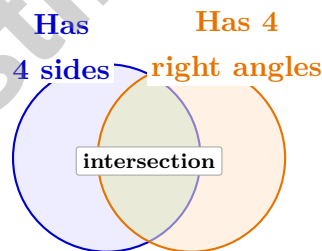


- A. 2 yards
- B. 3 yards
- C. 4 yards
- D. 6 yards

2) Convert: 3 L = ? mL.

Record your answer in the space provided.

3) A Venn diagram has circles for “Has 4 sides” and “Has 4 right angles.” Where does a rectangle belong?



- A. In “Has 4 sides” only
- B. In the intersection
- C. In “Has 4 right angles” only
- D. Outside both circles



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1) A baker divides $\frac{1}{2}$ cup of flour equally into 4 portions. How much flour is in each portion?

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

B. $\frac{1}{6}$ cup

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

D. $\frac{1}{8}$ cup

2) Which expression **does NOT** equal the others?

A. $2 \times 8 + 4$

B. $(2 + 4) \times 4$

C. $4 + 8 + 8$

D. $8 \times 2 + 4$

3) Add: $\frac{4}{5} + \frac{1}{2}$

A. $\frac{5}{7}$

B. $\frac{8}{10}$

C. $\frac{5}{10}$

D. $\frac{13}{10}$

4) Which factor makes $\text{factor} \times 6 > 6$ true?

A. $\frac{4}{5}$

B. $\frac{9}{10}$

C. 1

D. $1\frac{1}{10}$

5) A measured distance is 24 centimeters. What is this distance in millimeters?

A. 2.4 mm

B. 24 mm

C. 240 mm

D. 2,400 mm

6) A rectangular container is 25 cm long, 15 cm wide, and 10 cm deep. What is its volume?

Container
25 cm \times 15 cm \times 10 cm

A. 3000 cm^3

B. 3500 cm^3

C. 3750 cm^3

D. 4000 cm^3



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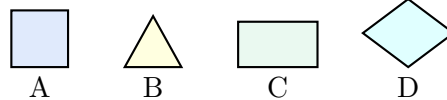
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- 1) Three weights recorded in decimal form: 0.062 kg, 0.62 kg, 6.2 kg. If each is multiplied by 10, which result is smallest?

- A. $0.062 \times 10 = 0.62$ kg C. $6.2 \times 10 = 62$ kg
 B. $0.62 \times 10 = 6.2$ kg D. All equal

- 2) The figures below are labeled A-D. Which figure is a rectangle but not a square?



- A. Figure A C. Figure C
 B. Figure B D. Figure D
- 3) What is the missing denominator? $\frac{3}{5} = \frac{9}{?}$
- A. 10 C. 15
 B. 12 D. 18
- 4) A triangle has angles of 30 degrees, 70 degrees, and 80 degrees. What type is it based on its angles?
- A. Acute C. Obtuse
 B. Right D. Equilateral
- 5) Compare: 5×12 6×10
- A. > C. =
 B. < D. Cannot tell



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 Arkansas scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(5.CAR.1)** Multiply: $23 \times 11 = 23 \times (10 + 1) = (23 \times 10) + (23 \times 1) = 230 + 23 = 253$.
- 2) **Choice C is correct.** **(5.CAR.1)** A 5 by 3 layer has 15 cubes. With 4 layers, $15 \times 4 = 60$ unit cubes.
- 3) **Choice D is correct.** **(5.CAR.11)** Start with one unit fraction, $\frac{1}{5}$, and share it into 5 equal parts. Each part is $\frac{1}{5} \div 5 = \frac{1}{25}$ of the whole.
- 4) **Choice C is correct.** **(5.GM.4)** Base area = $6 \times 4 = 24 \text{ in}^2$. Volume = $24 \times 5 = 120 \text{ in}^3$.
- 5) **Choice A is correct.** **(5.GM.4)** The tenths place is 4. Since 4 is less than 5, round down. 23.45 rounded to the nearest whole number is 23.
- 6) **The correct answer is 0.85.** **(5.NPV.2)** Move the decimal point three places left: $850 \rightarrow 0.85$.
- 7) **Choice C is correct.** **(5.NPV.2)** Total: $350 + 480 + 420 = 1,250 \text{ mL} = 1.25 \text{ liters}$.
- 8) **Choice A is correct.** **(5.CAR.5)** Simplify: $\frac{4}{12} = \frac{1}{3}$. Then $\text{LCM}(3,5) = 15$. $\frac{1}{3} = \frac{5}{15}$ and $\frac{2}{5} = \frac{6}{15}$. $\frac{5}{15} + \frac{6}{15} = \frac{11}{15}$.
- 9) **Choice B is correct.** **(5.CAR.5)** The base area tells how many square units are in one layer. Multiplying by the height counts all the layers, so $V = B \times h$.
- 10) **Choice A is correct.** **(5.CAR.14)** Pattern J is twice Pattern I: $2 \times 2 = 4$, $5 \times 2 = 10$, $8 \times 2 = 16$, $11 \times 2 = 22$.
- 11) **The correct answer is $\frac{1}{6}$.** **(5.NPV.6)** Multiply across: $\frac{3 \times 4}{8 \times 9} = \frac{12}{72}$. Divide both parts by 12 to simplify to $\frac{1}{6}$.
- 12) **Choice D is correct.** **(5.NPV.6)** A common denominator for $\frac{1}{2}$ and $\frac{1}{3}$ is 6. $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$.
- 13) **Choice B is correct.** **(5.CAR.5)** Count the X marks above each length. The length $\frac{3}{8}$ foot has 3 X marks, more than any other length.
- 14) **Choice A is correct.** **(5.NPV.6)** Three strips of $\frac{1}{5}$ each: $3 \times \frac{1}{5} = \frac{3}{5}$.
- 15) **Choice A is correct.** **(5.CAR.3)** Line up decimal points and subtract place by place. $4.80 - 1.95 = 2.85$ meters. This confirms the answer.
- 16) **Choice D is correct.** **(5.CAR.3)** One box has volume $5 \times 3 \times 2 = 30$ cubic feet. There are 4 boxes, so $30 \times 4 = 120$ cubic feet.
- 17) **Choice C is correct.** **(5.GM.4)** Add wholes: $2 + 3 = 5$. Add fractions: $\frac{3}{4} + \frac{1}{4} = 1$. Total: 6.
- 18) **Choice B is correct.** **(5.CAR.5)** Since $5 \div \frac{1}{5} = 5 \times 5 = 25$, the whole number is 5.
- 19) **Choice C is correct.** **(5.CAR.11)** Following the pattern: point 1 is (1, 2), point 2 is (3, 5), point 3 is (5, 8), point 4 is (7, 11).
- 20) **Choice D is correct.** **(5.GM.8)** To change 3.82 into 382, the decimal moves two places right. A two-place move to the right means multiplying by 100.
- 21) **Choices A, B are correct.** **(5.NPV.2)** When the factor is less than 1, the product is less than the starting number. Choice C is double the number, and D equals the starting value instead of scaling down.
- 22) **Choice D is correct.** **(5.CAR.9)** $\frac{4}{5} \times 40 = \frac{4 \times 40}{5} = \frac{160}{5} = 32$.
- 23) **Choice D is correct.** **(5.CAR.10)** $4\frac{1}{12} \approx 4$. So $7 - 4\frac{1}{12} \approx 7 - 4 = 3$.
- 24) **Choice C is correct.** **(5.CAR.10)** If it is a quadrilateral with only one pair of parallel sides and is NOT a parallelogram, it must be a trapezoid.
- 25) **The correct answer is $\frac{1}{9}$.** **(5.CAR.11)** $\frac{1}{3} \div 3 = \frac{1}{9}$ liter. Sharing one-third liter fairly among 3 friends gives each friend one-ninth liter.
- 26) **Choice D is correct.** **(5.CAR.11)** Add: $1.45 + 2.38 = 3.83 \text{ m}$ (hundredths: $5 + 8 = 13$, regroup; tenths: $4 + 3 + 1 = 8$; ones: $1 + 2 = 3$).
- 27) **Choice B is correct.** **(5.CAR.3)** $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$. This simplifies to $\frac{1}{2}$ yard of ribbon.
- 28) **The correct answer is $\frac{1}{12}$.** **(5.CAR.11)** $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$.
- 29) **The correct answer is 5.** **(5.CAR.11)** The expression $12 + 8$ is one amount. Multiplying it by 5 makes 5 copies of that amount, so the answer is 5.
- 30) **Choice C is correct.** **(5.CAR.13)** The rule says the output is half of the input. For $x = 14$, divide by 2: $14 \div 2 = 7$.



Star Player Pep Talk

To My Star Math Player,

◇ 9 practice tests. Every one of them was a chance to grow, and every one of them you took. That's why your math game is at a new level today. ◇

★ **Star players know:** confidence comes from preparation. You can't fake confidence. You build it. You built yours through these 9 tests. So when test day shows up, your confidence will be real, because your work was real. ★

Star Player Stats

- **Practice Hours:** OFF THE CHARTS!
- **Skill Range:** BROAD! You can handle different problem types.
- **Mental Toughness:** HIGH! You don't quit on hard problems.
- **Game-Day Plan:** READY! You know your strategies.

Star tip: the best players don't try to be perfect on every play. They focus on the next play. Do that on the test. One problem at a time. One small win at a time. You add them up to a great score.

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 Coaches (Go Star!)

PRACTICE MORE. ACHIEVE MORE.

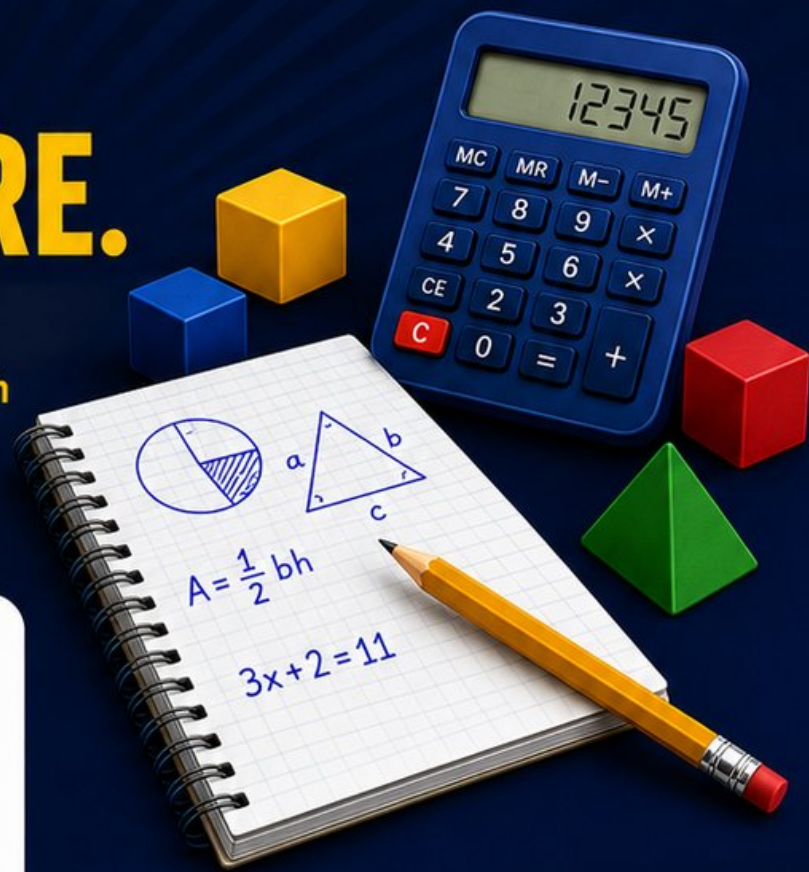
Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
PRACTICE
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



Build Confidence

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



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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