

4

COMPLETE

Arkansas ATLAS

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



BUILD STRONG
MATH SKILLS
& TEST READINESS



IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING



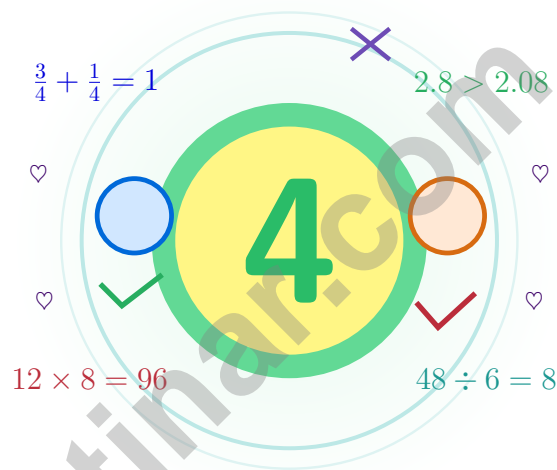
PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY



ALIGNED TO
ARKANSAS
STATE STANDARDS
(ATLAS)

4 Arkansas ATLAS Grade 5 Math Practice Tests

Four steady test-day rehearsals, woven into one strong routine



Four full tests, a smart quick review, mission-style strategy pages,
and student-tested support that help Grade 5 mathematicians from
The Natural State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Open the Map, Arkansas – Math Mission Time

Four practice tests woven into one calm, steady routine

Welcome Letter for Arkansas Math Crew

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is a lot like the Buffalo River – it bends, narrows, opens up, and rewards anyone who watches the current and follows the path.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Spot Clues

Notice what the problem shows, says, and asks.

Build a Plan

Choose a strategy and work through it step by step.

Bounce Back

Let mistakes show you exactly what to practice next.

A strong mission habit for Arkansas: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

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A Map of the Pages

A four-step routine that turns practice into real improvement

Step 1: Power Up

Start with the quick review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Take the Test

Work through one full practice test.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Decode Mistakes

Check your work honestly.

Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Bring the Lesson Forward

Repair, reflect, and retry.

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



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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)

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Metric

1 meter (m) = 100 centimeters (cm)

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CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

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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) Estimate: $\frac{1}{8} + \frac{7}{8}$.

 A. 0 B. $\frac{1}{2}$ C. 1 D. 2

2) Find: $7,000,000 \div 10^4$.

Record your answer in the space provided.

3) Express 72000 using a power of 10: $72000 = 72 \times 10^?$

 A. 2 B. 3 C. 4 D. 5

4) Find the product: $0.07 \times 1,000$.

Record your answer in the space provided.

5) A recipe calls for $\frac{3}{4}$ cup of flour. Maria is making $\frac{2}{3}$ of the recipe. How much flour does she need?

 A. $\frac{1}{2}$ cup B. $\frac{9}{12}$ cup C. $\frac{1}{4}$ cup D. $\frac{5}{8}$ cup

6) A recipe needs $\frac{1}{4}$ cup of oil. You make $\frac{3}{4}$ of the recipe. How much oil do you need?

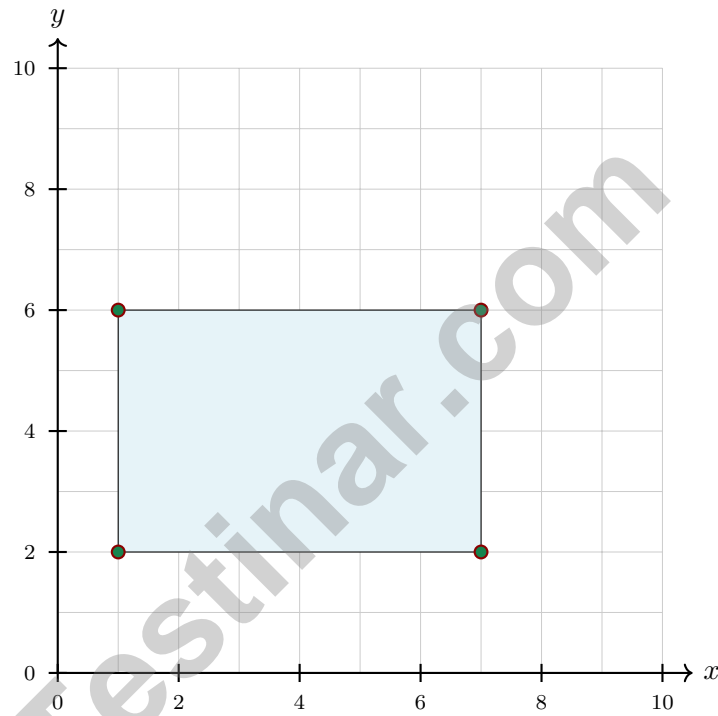
A. $\frac{3}{16}$ cup

B. $\frac{1}{12}$ cup

C. $\frac{4}{16}$ cup

D. $\frac{2}{4}$ cup

7) Four points are plotted to form a quadrilateral: (1, 2), (7, 2), (7, 6), and (1, 6). What shape is formed?



A. Trapezoid

B. Triangle

C. Rectangle

D. Hexagon

8) Evaluate: $(3 \times 3 + 6) \times 2 - 8$

A. 20

B. 22

C. 28

D. 32



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1) Add: $4\frac{1}{10} + 2\frac{9}{10}$

A. $6\frac{1}{10}$

B. 7

C. $7\frac{1}{10}$

D. 8

2) Which product has exactly 4 zeros?

A. 20×50

B. 50×40

C. 20×500

D. $20 \times 50,000$

3) A small box is 85 centimeters tall. Convert to millimeters.

A. 8.5 mm

B. 85 mm

C. 850 mm

D. 8,500 mm

4) A transport company tracks deliveries with arrival times: First delivery: 8:30 AM Second delivery: 10:45 AM Third delivery: 1:15 PM

How much time passed from the first to the last delivery?



A. 3 hours 45 minutes

B. 4 hours 15 minutes

C. 4 hours 45 minutes

D. 5 hours 15 minutes



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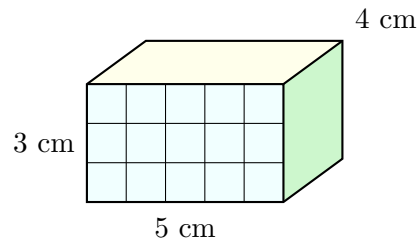
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- 1) A small gift box measures 5 cm by 4 cm by 3 cm. What is its volume?



- A. 12 cubic cm C. 60 cubic cm
 B. 20 cubic cm D. 75 cubic cm
- 2) A rectangular prism has volume 504 in^3 , length 18 in, and width 7 in. What is its height?
- A. 2 in C. 4 in
 B. 3 in D. 5 in
- 3) A school bought 12 boxes of colored pencils. Each box contains 24 pencils. How many pencils did the school buy?
- A. 276 C. 300
 B. 288 D. 312
- 4) A farmer needs fencing for three pastures: Pasture A: 180 meters, Pasture B: 165 meters, Pasture C: 225 meters. If fencing costs 12 dollars per meter, what is the total cost?
- A. \$5,400 C. \$6,840
 B. \$6,120 D. \$7,200
- 5) At a fruit stand, your fruit costs \$8.62. You pay with a \$10.00 bill. How much change do you receive?
- A. \$0.63 C. \$1.38
 B. \$3.44 D. \$0.38



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1) If $n \times 10^2 = 4600$, what is n ?

A. 4.6

C. 460

B. 46

D. 0.46

2) For a rectangular prism, the volume is 120 cubic units. The width is 5 units and the height is 4 units. What is the length?

A. 2,400 units

C. 111 units

B. 20 units

D. 6 units

3) A factory makes 100 units per day. After 19 days, how many units are made?

Days	19
Units per Day	100
Total	?

A. 119

C. 19000

B. 1900

D. 190

4) A teacher stacks 5 identical rectangular blocks. Each block is 4 inches by 3 inches by 2 inches. What is the total volume of the stack?

Record your answer in the space provided.



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 C is correct.** (5.CAR.10) $\frac{1}{8}$ is close to 0, and $\frac{7}{8}$ is close to 1. So $\frac{1}{8} + \frac{7}{8} \approx 0 + 1 = 1$.
- 2) **The correct answer is 700.** (5.NPV.2) Dividing by 10,000 moves the decimal four places left: $7,000,000 \div 10,000 = 700$.
- 3) **Choice B is correct.** (5.NPV.2) A power of 10 tells how many factors of 10 to use. $72 \times 10^3 = 72,000$. This confirms the answer.
- 4) **The correct answer is 70.** (5.NPV.2) Multiplying by 1,000 moves the decimal point three places right: $0.07 \rightarrow 70$.
- 5) **Choice A is correct.** (5.CAR.9) Multiply the fractions: $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$. Therefore, Maria needs $\frac{1}{2}$ cup of flour.
- 6) **Choice A is correct.** (5.NPV.6) Making $\frac{3}{4}$ of the recipe means finding $\frac{3}{4}$ of $\frac{1}{4}$ cup. Multiply: $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$ cup.
- 7) **Choice C is correct.** (5.GM.8) The four points form a quadrilateral with four right angles and opposite sides equal. This is a rectangle with width 6 units and height 4 units.
- 8) **Choice B is correct.** (5.CAR.12) Inside the parentheses, multiply first: $3 \times 3 = 9$. Then $9 + 6 = 15$, $15 \times 2 = 30$, and $30 - 8 = 22$.
- 9) **Choice B is correct.** (5.GM.2) The correct answer is $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12}$, not $\frac{2}{7}$. The student added $3 + 4 = 7$ instead of multiplying $3 \times 4 = 12$.
- 10) **Choice A is correct.** (5.CAR.11) $\frac{1}{10} \div 2 = \frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$.
- 11) **The correct answer is 720,000.** (5.NPV.2) Use $8 \times 9 = 72$. The factors 80 and 9,000 have four zeros total, so the product is 720,000.
- 12) **Choice D is correct.** (5.NPV.3) In 7.29, the 2 is in the tenths place and the 9 is in the hundredths place: $7 + \frac{2}{10} + \frac{9}{100}$.
- 13) **Choice D is correct.** (5.CAR.5) $\frac{9}{12} - \frac{3}{12} = \frac{6}{12}$, which simplifies to $\frac{1}{2}$.
- 14) **Choice D is correct.** (5.CAR.3) Line up decimal points and subtract place by place. $15.50 - 8.25 = 7.25$ dollars. This confirms the answer.
- 15) **Choice D is correct.** (5.CAR.5) The number line shows the dot positioned at $\frac{2}{3}$. Multiplying the numerator and denominator by 2 gives $\frac{2}{3} = \frac{4}{6}$.
- 16) **Choice D is correct.** (5.CAR.11) Divide a whole number by a unit fraction: $4 \div \frac{1}{2} = 4 \times 2 = 8$ pieces.
- 17) **The correct answer is 165.** (5.GM.6) Convert the hours first: 2 hours is $2 \times 60 = 120$ minutes. Add 45 minutes to get $120 + 45 = 165$ minutes.
- 18) **Choice D is correct.** (5.GM.4) Subtract the sales and returns from the total cost: $4,850 - 3,200 - 450 = 1,200$. So \$1,200 is still not covered.
- 19) **Choice C is correct.** (5.CAR.5) $18\frac{3}{5} - 12\frac{2}{5}$: subtract whole numbers $18 - 12 = 6$ and fractions $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$. Combine to get $6\frac{1}{5}$ miles.
- 20) **Choice B is correct.** (5.NPV.4) The hundredths digit is 9. The thousandths digit is 6. Since $6 \geq 5$, round hundredths up: $9 \rightarrow 10$, which rolls over. The ones digit becomes 5, giving 5.00 inches.
- 21) **Choice A is correct.** (5.GM.4) The base area is $8 \times 6 = 48$ square centimeters. Since $240 \div 48 = 5$, the height is 5 cm.
- 22) **Choices A, B are correct.** (5.GM.4) Pair A gives 24 and 24, and Pair B also gives 24 and 24. Pair C gives 24 and 15, and Pair D gives 20 and 18, so those pairs do not match.
- 23) **Choice D is correct.** (5.CAR.11) $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ of the land is planted.
- 24) **Choice B is correct.** (5.GM.1) A rhombus is a quadrilateral with four equal sides. It does not have to have four right angles.
- 25) **Choice D is correct.** (5.CAR.11) Use total amount divided by the size of one piece. The equation is $8 \div \frac{1}{4} = n$.
- 26) **Choice B is correct.** (5.CAR.5) Common denominator is 10: $1\frac{5}{10} + 4\frac{2}{10} = 5\frac{7}{10}$.
- 27) **Choice B is correct.** (5.CAR.11) Start with one unit fraction, $\frac{1}{9}$, and share it into 4 equal parts. Each part is $\frac{1}{9} \div 4 = \frac{1}{36}$ of the whole.
- 28) **Choice A is correct.** (5.CAR.13) A quarter of the sum is less than the original sum, and three times the sum is greater than the original sum. So the quarter is smallest, the sum is in the middle, and the triple is largest.



From Your Math Family

Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 4 full practice tests, and that hard work matters more than any single score. We see you. We're proud of you. ◇

★ **What our math family knows:** math is a journey, not a one-time event. You've taken many steps already. The test is just one stop on a much longer path. Every skill you've built is yours forever. ★

What Your Math Family Sees

- **Effort:** STRONG! You showed up again and again.
- **Growth:** REAL! You can solve problems today you couldn't before.
- **Courage:** BRIGHT! You faced hard problems with brave thinking.
- **Future:** BIG! Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You're not alone. Your math family is with you. Now go show what you've learned.

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 Family (Always With You)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



DETAILED ANSWER KEY

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



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
Essential
Concepts



Boost
Confidence
on Test Day



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