

7

Arkansas

ATLAS

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



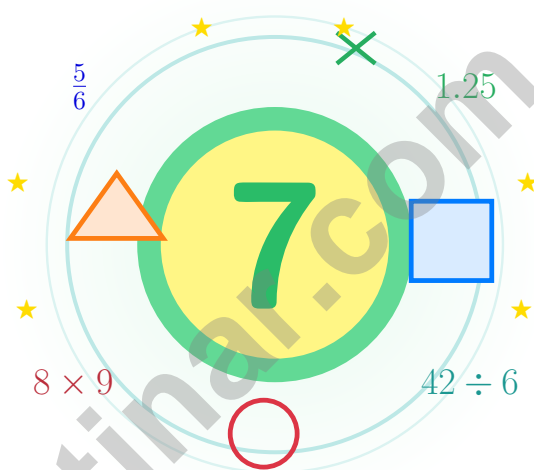
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

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

7 Arkansas ATLAS Grade 5 Math Practice Tests

A seven-step expedition for curious Grade 5 thinkers



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Natural State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Hello, Arkansas – Seven Tests, Steady Growth

Seven chances to read carefully, solve smartly, and grow stronger

To Arkansas Students Who Love a Puzzle

This practice book is your steady companion for seven tests, not a place to be perfect. Math is a lot like the Buffalo River – it bends, narrows, opens up, and rewards anyone who watches the current and follows the path.

Use these seven 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 across seven rounds.

Notice

Notice the numbers, units, and any tricky words.

Sketch

Sketch a picture, table, or quick number line.

Confirm

Confirm your answer with an estimate or check.

A strong habit for Arkansas mathematicians: 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.

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How This Book Wants to Help

A simple routine that turns practice into progress

Step 1: Plan

Plan a quiet hour for one full test.
Spend a few minutes waking up your memory before the test begins.

Step 2: Practice

Take the test with calm focus.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and notice which topics keep showing up.

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Arkansas Rhythm

Week 1	Take Test 1 and notice your starting current.
Week 2	Take Test 2 and slow 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 the run with steady, confident paddling.



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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)

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1 kilogram (kg) = 1,000 grams (g)

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TIME

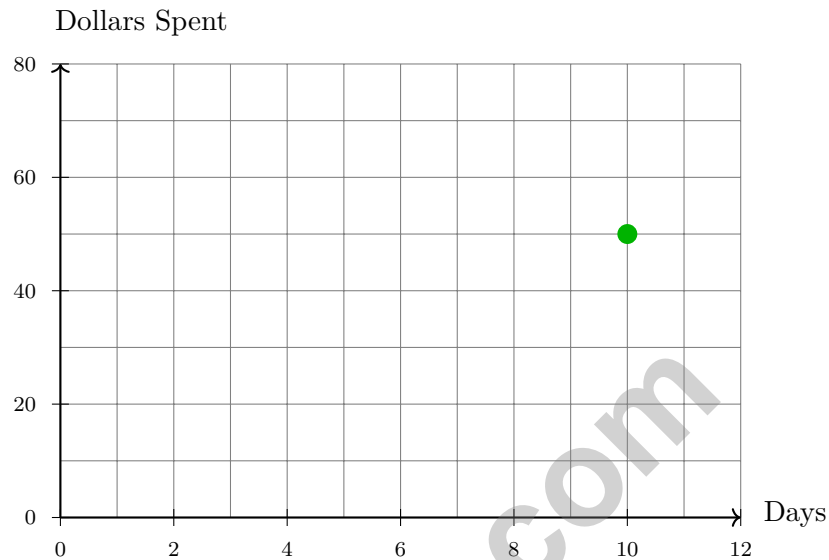
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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- 1) On a budget tracker graph, the point $(10, 50)$ shows how many dollars were spent in how many days?

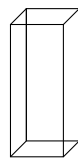


- A. \$10 in 50 days C. \$60 in 10 days
 B. \$50 in 10 days D. 60 total dollars
- 2) A park path is 2 kilometers long. If a jogger has run 1,200 meters so far, how many more meters must they run to complete the path?
- A. 800 m C. 1,200 m
 B. 1,000 m D. 2,800 m
- 3) Starting from $(0, 0)$, you move 4 units right and 5 units up. What ordered pair are you at?

Record your answer in the space provided.



- 4) An aquarium is shaped like a rectangular prism with length 10 in, width 8 in, height 6 in. What is the volume?
- A. 480 in^3 C. 80 in^3
 B. 24 in^3 D. 120 in^3
- 5) A farmer has $\frac{1}{3}$ of a bag of seeds. He divides it equally into 5 smaller packets. How much is in each packet?
- A. $\frac{5}{3}$ of a bag C. $\frac{1}{15}$ of a bag
 B. $\frac{1}{8}$ of a bag D. $\frac{1}{2}$ of a bag
- 6) A grocery store packs 74.5 pounds of sugar into 10 equal bags. How much sugar is in each bag?
- A. 745 pounds C. 7.45 pounds
 B. 74.5 pounds D. 0.745 pounds
- 7) A factory produces 6,300 items. They package them in 10 shipping boxes. How many items are in each box?
- A. 0.63 C. 63
 B. 6.3 D. 630
- 8) A refrigerator is 2 feet wide, 3 feet deep, and 5 feet tall. What is its volume?



$$2 \times 3 \times 5 \text{ ft}$$

- A. 10 cubic feet C. 25 cubic feet
 B. 15 cubic feet D. 30 cubic feet



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- 1) A composite model building is made from two non-overlapping rectangular prisms. Prism A is 5 inches long, 4 inches wide, and 3 inches tall. Prism B is 6 inches long, 4 inches wide, and 5 inches tall. What is the total volume?
- A. 60 cubic inches C. 120 cubic inches
 B. 180 cubic inches D. 200 cubic inches
- 2) You multiply a decimal by 10. What happens to the decimal point?
- A. It moves 1 place to the left C. It stays in the same place
 B. It moves 1 place to the right D. It disappears
- 3) Pattern A: 2, 4, 6, 8, 10. Pattern B: 6, 12, 18, 24, 30. Both patterns follow a rule. Write the rule for Pattern B in terms of Pattern A.
- A. Pattern B is 3 more than Pattern A C. Pattern B is 5 less than Pattern A
 B. Pattern B is 5 times Pattern A D. Pattern B is 3 times Pattern A
- 4) A rectangular aquarium is 12 inches long, 6 inches wide, and 8 inches tall. Find its volume and explain your work.

Record your answer in the space provided.

- 5) Find: 135×27 .

Record your answer in the space provided.



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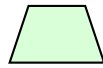
1) Which statement is false?



Square



Rhombus



Trapezoid



Kite



Pentagon

- A. A square is a rhombus. C. A pentagon is a quadrilateral.
 B. A rhombus is a parallelogram. D. A kite has 2 pairs of equal sides.

2) What is 225×4 ?

- A. 880 C. 900
 B. 890 D. 910

3) Add: $\frac{7}{12} + \frac{1}{8}$

- A. $\frac{8}{20}$ C. $\frac{8}{12}$
 B. $\frac{17}{24}$ D. $\frac{15}{24}$

4) What is $15.7 \div 100$?

- A. 1.57 C. 157
 B. 0.015 D. 0.157

5) A class collects donations. Monday: $\frac{1}{3}$ of target, Tuesday: $\frac{1}{4}$ of target. Total collected?

- A. $\frac{7}{12}$ C. $\frac{1}{7}$
 B. $\frac{5}{12}$ D. $\frac{2}{7}$



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- 1) A rectangular tank has base area 24 ft^2 and volume 216 ft^3 . What is the height?
- A. 9 ft C. 7 ft
 B. 8 ft D. 10 ft
- 2) Centimeter to millimeter conversion: $3.5 \text{ cm} = \underline{\hspace{1cm}}$ mm. (1 cm = 10 mm.) What is the result?
- A. 0.35 mm C. 35 mm
 B. 3.5 mm D. 350 mm
- 3) A bench is 2.8 meters long. If a child is 0.7 meters tall, how many times the child's height is the bench?
- A. 2 times C. 4 times
 B. 3 times D. 5 times



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.GM.8)** Days are on the x-axis (10) and dollars spent are on the y-axis (50). So \$50 was spent in 10 days.
- 2) **Choice A is correct.** **(5.GM.6)** Convert 2 km to meters: $2 \times 1000 = 2000$ m. Subtract: $2000 - 1200 = 800$ m.
- 3) **The correct answer is (4, 5).** **(5.GM.7)** Right shifts x by +4; up shifts y by +5. Accept equivalent coordinate-pair formatting such as (4, 5), (4, 5), 4, 5, or a written form such as $x = 4$, $y = 5$.
- 4) **Choice A is correct.** **(5.GM.4)** $V = 10 \times 8 \times 6 = 480$ in³.
- 5) **Choice C is correct.** **(5.CAR.11)** $\frac{1}{3} \div 5 = \frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$.
- 6) **Choice C is correct.** **(5.NPV.2)** Dividing by 10: $74.5 \div 10 = 7.45$ pounds per bag.
- 7) **Choice D is correct.** **(5.NPV.2)** Dividing by a power of 10 shifts the value to the smaller place. $6,300 \div 10 = 630$ items per box. This confirms the answer.
- 8) **Choice D is correct.** **(5.GM.4)** $V = 2 \times 3 \times 5 = 30$ cubic feet.
- 9) **Choice C is correct.** **(5.CAR.11)** $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ mile. Add numerators when denominators match.
- 10) **Choice B is correct.** **(5.GM.4)** Volume = $9 \times 4 \times 6 = 36 \times 6 = 216$ cubic units.
- 11) **Choice C is correct.** **(5.NPV.6)** Since $\frac{1}{4} < \frac{1}{2}$, the product $10 \times \frac{1}{4}$ is smaller. $10 \times \frac{1}{4} = 2\frac{1}{2}$ and $10 \times \frac{1}{2} = 5$.
- 12) **Choice B is correct.** **(5.NPV.2)** First multiply by 1,000, moving the decimal three places right to get 500. Then divide by 10, moving one place left to get 50.
- 13) **Choice C is correct.** **(5.CAR.11)** Each whole contains 5 pieces of size $\frac{1}{5}$. With 4 wholes, there are $4 \times 5 = 20$ pieces.
- 14) **The correct answer is 12.** **(5.CAR.2)** Use division: $216 \div 18 = 12$. Each box has 12 seed packets.
- 15) **Choice D is correct.** **(5.GM.1)** The matching tick marks show that triangle D has 3 equal sides. An equilateral triangle also has 3 equal angles, making it a regular polygon.
- 16) **The correct answer is 4.** **(5.NPV.1)** In the number 346,782, the digits from right to left are: ones (2), tens (8), hundreds (7), thousands (6), ten thousands (4), hundred thousands (3). Therefore, the digit in the ten thousands place is 4.
- 17) **The correct answer is 2.4.** **(5.CAR.4)** Use place-value reasoning to keep the decimal in the correct place. $96 \div 4 = 24$. Place decimal: 2.4. This confirms the answer.
- 18) **Choice D is correct.** **(5.CAR.5)** LCM of 2, 3, 4, and 6 is 12, so the least common denominator is 12.
- 19) **Choice A is correct.** **(5.NPV.3)** $\frac{5}{10} = 0.5$ (tenths place) and $\frac{2}{100} = 0.02$ (hundredths place), so $3 + 0.5 + 0.02 = 3.52$.
- 20) **Choice B is correct.** **(5.CAR.10)** $\frac{8}{11}$ is a little less than $\frac{3}{4}$, and the other addend is $\frac{3}{4}$. Together they are a little less than $1\frac{1}{2}$, so the sum is between 1 and $1\frac{1}{2}$.
- 21) **Choice B is correct.** **(5.GM.6)** Since 1 quart = 4 cups, divide 2 by 4: $2 \div 4 = \frac{1}{2}$ quart.
- 22) **Choices A, B are correct.** **(5.CAR.14)** C reverses growth; D is false ($15 \neq 30$).
- 23) **Choice B is correct.** **(5.CAR.5)** Start at $5\frac{3}{8}$ and hop back $2\frac{1}{8}$ to land at $3\frac{2}{8}$, which simplifies to $3\frac{1}{4}$.
- 24) **Choice A is correct.** **(5.GM.1)** A triangle with three equal side lengths is equilateral.
- 25) **Choice C is correct.** **(5.GM.5)** Work one prism at a time: $11 \times 3 \times 4 = 132$, $9 \times 5 \times 4 = 180$, and $8 \times 2 \times 4 = 64$. Add the non-overlapping volumes: $132 + 180 + 64 = 376$ cubic meters.
- 26) **Choice D is correct.** **(5.GM.4)** Volume = $11 \times 11 \times 11 = 1331$ cubic centimeters.
- 27) **Choice A is correct.** **(5.NPV.5)** Compare place by place: 0.06 (6 hundredths) $<$ 0.16 (16 hundredths) $<$ 0.6 (60 hundredths) $<$ 0.66 (66 hundredths).
- 28) **Choice A is correct.** **(5.GM.8)** The x-coordinate of 1 means 1 unit to the right; the y-coordinate of 4 means 4 units up.
- 29) **Choice B is correct.** **(5.CAR.3)** Add step by step: $1.23 + 2.14 = 3.37$; then $3.37 + 3.45 = 6.82$.
- 30) **Choice C is correct.** **(5.GM.4)** Add: $8.75 + 10.25 + 7.5 = 26.50$ kilometers.
- 31) **Choice C is correct.** **(5.GM.6)** First add the miles: $156 + 144 = 300$ miles. Then convert miles to feet: $300 \times 5,280 = 1,584,000$ feet.



Strong Finish

Hello, Math Star!

★ Seven practice tests later, you've built real math confidence. Confidence means you can face a problem, stay calm, and keep working until you understand it. ★

◇ **That's what a strong finish looks like:** careful reading, smart strategies, and steady effort from start to end. ◇

Finish Like a Pro

- **Pace yourself:** don't rush the first half.
- **Use scratch work:** write steps clearly.
- **Save time:** leave a few minutes to review.
- **Fix small errors:** check signs, units, and place value.

I'm proud of your effort. Keep that same steady focus on test day.

You can reach me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Finish Strong)

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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
BY PARENTS

Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.