

5 FULL-LENGTH Arkansas ATLAS

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



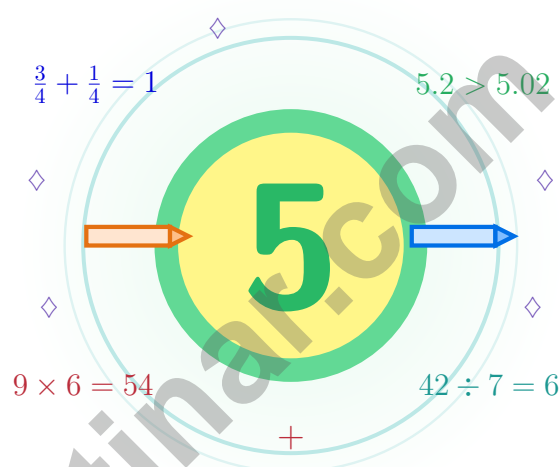
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Arkansas ATLAS Grade 5 Math Practice Tests

A five-checkpoint expedition for curious Grade 5 thinkers



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Natural State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Suit Up, Arkansas – Five Checkpoints Ahead

A five-checkpoint expedition for curious Grade 5 thinkers

For Every Curious Mind in Arkansas

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is a lot like the Buffalo River – it bends, narrows, opens up, and rewards anyone who watches the current and follows the path.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Look

Look at the problem like a careful detective.

Test

Test your idea one careful step at a time.

Repair

Repair what was off and try the next one.

A strong quest habit for Arkansas: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Five Tests, Five Lessons

A simple routine that turns five tests into real growth

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Practice one full test in quiet conditions.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, repair the work, and carry that lesson into the 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)

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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1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

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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) Round 12.542 to the nearest tenth.

A. 12.4

C. 12.6

B. 13.0

D. 12.5

2) Subtract and simplify: $1 - \frac{3}{4}$

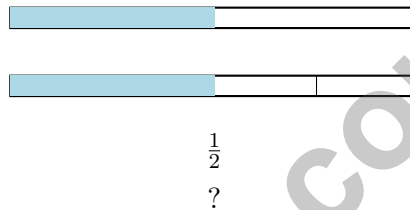
A. $\frac{3}{4}$

C. $\frac{1}{4}$

B. $\frac{2}{4} = \frac{1}{2}$

D. $\frac{2}{3}$

3) Use the fraction bar diagram below. Which fraction is equivalent to the shaded region?



A. $\frac{1}{4}$

C. $\frac{3}{4}$

B. $\frac{4}{4}$

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

4) How many inches are in $\frac{1}{2}$ foot?

A. 4 inches

C. 8 inches

B. 10 inches

D. 6 inches



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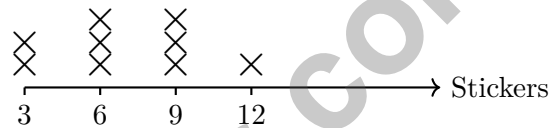
1)

| Factor | Scaling Effect | Example |
|---------------|-----------------|----------------------------|
| $\frac{1}{2}$ | Shrinks by half | $8 \times \frac{1}{2} = 4$ |
| 1 | No change | $8 \times 1 = 8$ |
| 2 | Doubles | $8 \times 2 = 16$ |

Based on the table, if you scale 12 by $\frac{2}{3}$, what do you predict about the product?

- A. Product is 6 (half of 12)
- B. Product is 8 (two-thirds of 12)
- C. Product is 12 (unchanged)
- D. Product is 24 (doubled)

2) The line plot shows the number of campaign stickers collected by students in a class election:



How many students are represented in the line plot?

- A. 9 students
- B. 10 students
- C. 11 students
- D. 12 students

3) Pattern 100, 50, 25, 12.5, ... Next?

- A. 6.25
- B. 6.5
- C. 10
- D. 5

4) A town saves \$1000 per month from its budget. How much is saved in 16 months?

Monthly Savings

$$\boxed{\$1000/\text{month}} \longrightarrow \times 16 \text{ months}$$

- A. \$16000
- B. \$17000
- C. \$160000
- D. \$1600



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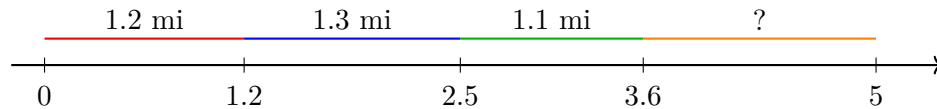
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1) Which fraction is equivalent to the decimal 0.75?

- A. $\frac{75}{10}$
 C. $\frac{7}{5}$
 B. $\frac{75}{1000}$
 D. $\frac{75}{100}$

2) A runner completes a 5-mile course in 4 segments: 1.2 miles, 1.3 miles, 1.1 miles, and the final segment. How long is the final segment?



- A. 1.2 miles
 C. 1.4 miles
 B. 1.3 miles
 D. 1.5 miles

3) Two students mixed paints. Student A used $\frac{3}{8}$ liter and Student B used $\frac{5}{12}$ liter. How much paint together?

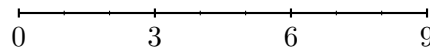
- A. $\frac{8}{20}$ liter
 C. $\frac{19}{24}$ liter
 B. $\frac{8}{12}$ liter
 D. 1 liter

4) Evaluate the expression: $48 \div (6 + 2) + 5 \times 3$

Record your answer in the space provided.

5) A seamstress has 9 yards of thread. How many $\frac{1}{3}$ -yard pieces can she cut?

9 yards of thread



- A. 9
 C. 27
 B. 18
 D. 36



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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 D is correct.** (5.NPV.4) The tenths place is 5. The hundredths place is 4. Since $4 < 5$, keep 5. So 12.542 rounds to 12.5.
- Choice C is correct.** (5.CAR.5) $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$.
- Choice D is correct.** (5.CAR.5) Both bars show the same shaded region. The top bar has 1 part shaded out of 2 halves; bottom bar has 2 parts shaded out of 4 fourths. Thus $\frac{1}{2} = \frac{2}{4}$.
- Choice D is correct.** (5.GM.6) Since 12 inches = 1 foot, $\frac{1}{2}$ foot = $12 \div 2 = 6$ inches.
- Choice D is correct.** (5.CAR.11) Each whole contains 2 pieces of size $\frac{1}{2}$. With 5 wholes, there are $5 \times 2 = 10$ pieces.
- Choice A is correct.** (5.CAR.11) Vegetables and flowers: $\frac{2}{7} + \frac{1}{3} = \frac{6}{21} + \frac{7}{21} = \frac{13}{21}$. Herbs: $1 - \frac{13}{21} = \frac{8}{21}$.
- Choice C is correct.** (5.GM.6) Number of sections: $72 \div 8 = 9$. Posts needed: $9 + 1 = 10$ (one at each end and one at each division between sections).
- Choice B is correct.** (5.CAR.2) $15 \times 23 = 345$. Use repeated subtraction or long division: $345 \div 15 = 23$.
- Choice C is correct.** (5.NPV.2) Dividing by a power of 10 shifts the value to a smaller place. $4,500 \div 10 = 450$ books per store. This confirms the answer.
- Choice C is correct.** (5.GM.4) The base area is $16 \times 4 = 64$ square centimeters. Since $256 \div 64 = 4$, the height is 4 cm.
- Choice D is correct.** (5.GM.3) The base has $3 \times 5 = 15$ cubes. Since $60 \div 15 = 4$, the prism has 4 layers, so the height is 4 units.
- The correct answer is 343 cm³.** (5.GM.4) A cube has the same side length in every direction. So the volume is $7 \times 7 \times 7 = 343$ cm³.
- Choice A is correct.** (5.NPV.6) The rectangle is divided into 8 equal parts (4 columns \times 2 rows). The overlap covers 3 of those 8 parts, so $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$.
- The correct answer is 2.** (5.GM.4) $30 \div (5 \times 3) = 30 \div 15 = 2$.
- Choice A is correct.** (5.NPV.1) $0.402 \times 10 = 4.02$. Multiplying by 10 shifts each digit one place to the left in the place-value chart.
- Choice A is correct.** (5.CAR.5) Multiples of 12: 12, 24, 36, ... Multiples of 9: 9, 18, 27, 36, ... The first common multiple is 36, so the LCD is 36.
- Choice D is correct.** (5.CAR.14) Pattern T is double Pattern S. For example, $2 \times 4 = 8$ and $2 \times 16 = 32$.
- Choice D is correct.** (5.GM.4) Use the rectangular-prism volume formula: $8 \times 5 \times 6 = 240$. So the volume is 240 cubic inches.
- Choices A, B are correct.** (5.CAR.10) C and D are close to 0 or $\frac{1}{2}$.
- Choice A is correct.** (5.GM.1) A quadrilateral is any four-sided polygon. Since every parallelogram has four sides, every parallelogram is also a quadrilateral.
- Choice C is correct.** (5.GM.6) Convert all to mL: A = 800 mL, B = 850 mL, C = 750 mL. Since $750 < 800 < 850$, Sample C is smallest.
- The correct answer is $\frac{1}{12}$.** (5.GM.2) Splitting into 3 rows and 4 columns gives 12 equal parts; the overlapping region is 1 of those parts: $\frac{1}{12}$.
- The correct answer is \$4/hr.** (5.GM.8) The point means 3 hours and 12 dollars. Divide dollars by hours: $12 \div 3 = 4$, so the rate is 4 dollars per hour.
- Choice C is correct.** (5.CAR.4) The model shows two parts: $2 \times 3 = 6$ and $0.5 \times 3 = 1.5$. Total: $6 + 1.5 = 7.5$.
- Choice B is correct.** (5.NPV.3) The tenths place is the first position after the decimal point. In 3.915, the tenths digit is 9.
- Choice A is correct.** (5.CAR.11) The one-sixth piece is split into 5 equal parts. So the matching equation is $\frac{1}{6} \div 5 = n$.
- Choice D is correct.** (5.NPV.6) $\frac{3}{3} = 1$, so $6 \times \frac{3}{3} = 6 \times 1 = 6$.
- Choice D is correct.** (5.GM.1) The squares are also rhombuses, so all rhombuses shown are $8 + 3 = 11$.
- Choice D is correct.** (5.CAR.9) $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$, which simplifies to $\frac{3}{10}$ liter of sugar.



Greenhouse Growth Journal

Hello, Master Gardener!

★ Magnificent cultivation! You've tended five complete mathematical gardens, planting concepts, nurturing understanding, and harvesting knowledge like an expert botanist! Each problem was a seed that needed care, and you've watched your mathematical garden flourish beautifully. Your botanical expertise in mathematics has reached impressive levels! ★

◇ **Here's what master gardeners understand:** healthy gardens require consistent care, patience, and knowledge of growth cycles. They prepare soil, water regularly, and remove obstacles to growth. You've provided that same careful attention to your mathematical understanding through these five tests! Your knowledge has deep roots now and continues growing stronger! ◇

Garden Growth Assessment

1. **Root Development:** Your mathematical foundation is deep and stable!
2. **Healthy Growth:** Your skills continue expanding and strengthening!
3. **Pest Resistance:** You handle challenging problems without wilting!
4. **Harvest Ready:** Your garden is flourishing and productive!

Botanical wisdom: gardeners know that plants with strong roots can weather any storm. Your mathematical roots the foundational concepts you've mastered are incredibly strong. On test day, when faced with challenging problems, trust that your roots will support you. You've cultivated knowledge that will serve you reliably!

Want to share your mathematical garden's progress or discuss cultivation techniques? Send your horticultural observations to reza@testinar.com. I love seeing mathematical gardens bloom!

Reza Nazari & Jay Daie

Your Math Coaches for Strong Foundations

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

WHAT'S INSIDE:



5 FULL-LENGTH PRACTICE TESTS

Realistic tests that build familiarity, boost focus, and improve test readiness.



COMPLETE STANDARDS REVIEW

Covers all essential Grade 5 math topics with clear explanations and examples.



SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world questions.



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



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Build Confidence
with consistent
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