

3

Arkansas

ATLAS

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice



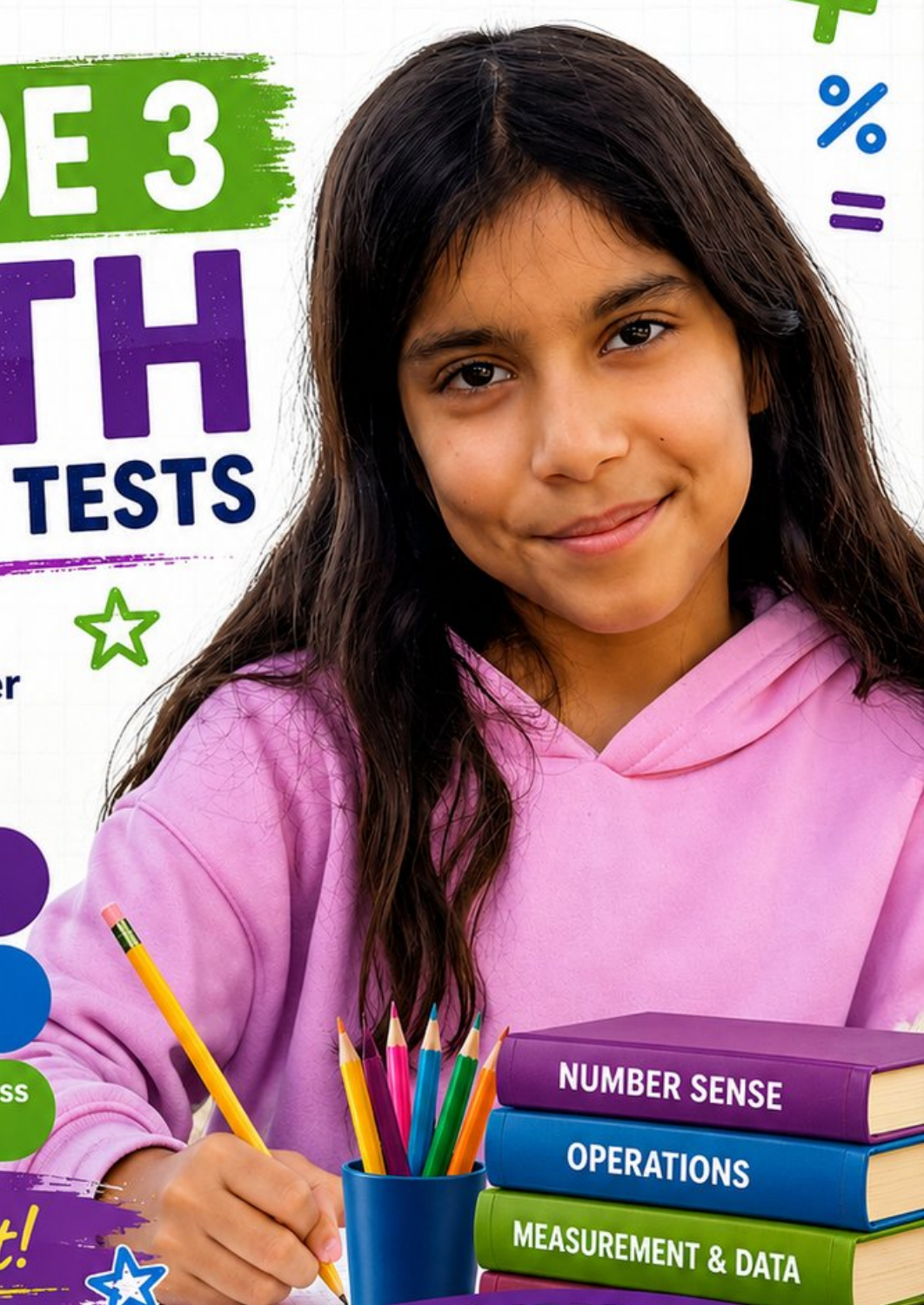
Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice



Be Ready.
Do Your Best!



3 Arkansas ATLAS Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Arkansas ATLAS strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Arkansas Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Arkansas ATLAS. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Arkansas ATLAS asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong ATLAS work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



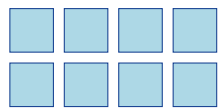
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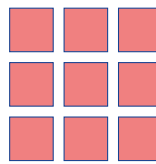
★ Practice Test 1	_____	16
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1) Which array shows 4×3 ?

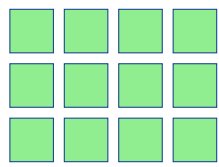
A



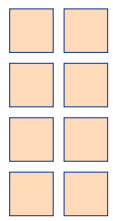
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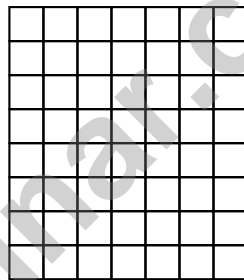
C



D

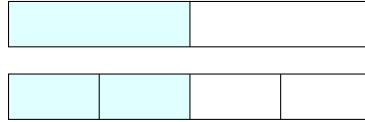


2) Here is a rectangle:



Count all the unit squares. Write how many unit squares cover this rectangle.

- 3) Two identical length strips. Strip P has 2 equal parts with 1 shaded. Strip Q has 4 equal parts with 2 shaded. Which statement is correct?



Strip P: $\frac{1}{2}$

Strip Q: $\frac{2}{4}$

- A. Strip Q has more.
 B. Strip P has more.
 C. They shade the same amount.
 D. Cannot be compared.
- 4) Which fraction is equivalent to $\frac{1}{2}$?
- A. $\frac{2}{6}$
 B. $\frac{4}{8}$
 C. $\frac{3}{8}$
 D. $\frac{1}{3}$
- 5) Pedro thinks of a multiplication fact to solve $54 \div 9$. Which multiplication fact helps him most?
- A. $9 \times 6 = 54$
 B. $9 \times 8 = 72$
 C. $9 \times 9 = 81$
 D. $8 \times 6 = 48$



- 6) What is the area of this rectangle?

- A. 7 sq units
 B. 10 sq units
 C. 12 sq units
 D. 15 sq units



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7) Skip count by 6: 6, 12, 18, 24, 30, 36.

What is the next number?

A. 40

B. 41

C. 42

D. 48

8) Round 325 to the nearest 100.

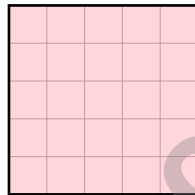
A. 300

B. 320

C. 325

D. 400

9) This rectangle on a grid has how many unit squares?



A. 20 sq units

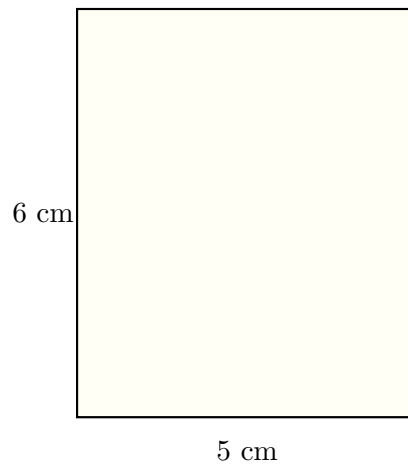
B. 25 sq units

C. 30 sq units

D. 35 sq units

10) Find $7 \times 9 + 5$.



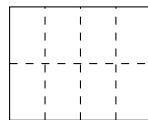


1)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

 A. 11 sq cm C. 22 sq cm B. 30 sq cm D. 60 sq cm

2) Two identical ribbons. Ribbon A shows $\frac{1}{2}$ colored red. Ribbon B shows $\frac{3}{6}$ colored red. Which statement is true?

 A. Ribbon A has more red. C. Both have the same amount of red. B. Ribbon B has more red. D. Cannot tell.

3)

This rectangle is divided into equal parts. What multiplication sentence shows this?

 A. $2 \times 2 = 4$ C. $5 \times 2 = 10$ B. $3 \times 2 = 6$ D. $4 \times 2 = 8$ 

- 4) Find $42 \div 6$. (Hint: What times 6 makes 42?)

- 5) Which number sentence matches “How many groups of 4 are in 16?”

- A. $4 + 16$ C. 4×16
 B. $16 - 4$ D. $16 \div 4$

- 6) A rectangle is divided into 3 equal sections. One section is shaded.



What fraction is shaded?

- A. $\frac{1}{3}$ C. $\frac{2}{3}$
 B. $\frac{1}{2}$ D. $\frac{3}{3}$

- 7) Use the place-value chart. What is 6×10 ?

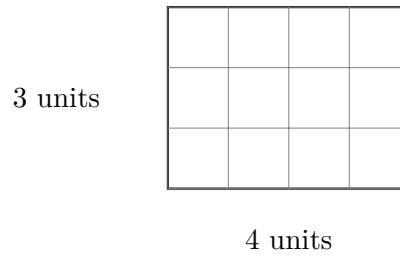
Tens	Ones
6	0

- A. 16 C. 610
 B. 60 D. 601

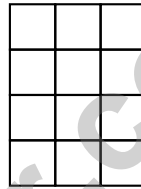


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- 1) Look at the rectangle below. How many square units cover the entire shape?



- A. 7 square units
- B. 8 square units
- C. 14 square units
- D. 12 square units
- 2) Ava is looking at this shape made of unit squares:



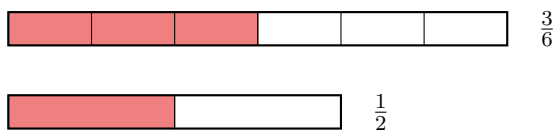
How many unit squares cover this shape?

- A. 7 unit squares
- B. 10 unit squares
- C. 12 unit squares
- D. 15 unit squares
- 3) Ava is decorating her bedroom wall with a rectangular poster. The poster is 11 inches wide and 9 inches tall. What is the area of the poster?
- A. 99 sq in
- B. 40 sq in
- C. 20 sq in
- D. 110 sq in
- 4) A baker makes cookies for a party. She has 40 cookies to put into boxes of 5. How many boxes does she need?
- A. 6
- B. 7
- C. 45
- D. 8



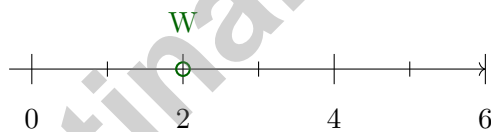
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5) Which fraction is equivalent to $\frac{3}{6}$?



- | | |
|---|---|
| <p><input type="checkbox"/> A. $\frac{2}{5}$</p> <p><input type="checkbox"/> B. $\frac{1}{3}$</p> | <p><input type="checkbox"/> C. $\frac{1}{2}$</p> <p><input type="checkbox"/> D. $\frac{2}{6}$</p> |
|---|---|
- 6) Which property of multiplication helps you solve 8×3 by thinking about $8 \times 2 + 8 \times 1$?
- | | |
|---|---|
| <p><input type="checkbox"/> A. Commutative</p> <p><input type="checkbox"/> B. Associative</p> | <p><input type="checkbox"/> C. Identity</p> <p><input type="checkbox"/> D. Distributive</p> |
|---|---|
- 7) Which of the following is true about a square?
- | | |
|---|---|
| <p><input type="checkbox"/> A. It is a rectangle and a rhombus</p> <p><input type="checkbox"/> B. It is a trapezoid</p> | <p><input type="checkbox"/> C. It is a triangle</p> <p><input type="checkbox"/> D. It has no right angles</p> |
|---|---|

8)



The number line from 0 to 6 is divided into halves. Point W is shown. What improper fraction or mixed number is point W ?

- | | |
|---|--|
| <p><input type="checkbox"/> A. $\frac{1}{2}$</p> <p><input type="checkbox"/> B. $\frac{4}{2}$</p> | <p><input type="checkbox"/> C. $\frac{3}{2}$</p> <p><input type="checkbox"/> D. $2\frac{1}{2}$</p> |
|---|--|
- 9) Write 3 as a fraction with denominator 1.

Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(3.CAR.3)** An array for 4×3 has 4 columns and 3 rows. Option C shows the correct array.
- The correct answer is 56 unit squares.** **(3.GM.5)** Count the rows: 8 rows. Count across: 7 unit squares per row. Total: $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 56$ unit squares.
- Choice C is correct.** **(3.NPV.11)** $\frac{1}{2} = \frac{2}{4}$ because both represent one-half of the strip.
- Choice B is correct.** **(3.NPV.5)** $\frac{1}{2}$ and $\frac{4}{8}$ both equal half of a whole.
- Choice A is correct.** **(3.CAR.9)** To solve $54 \div 9 = \square$, think: $\square \times 9 = 54$. The multiplication fact $9 \times 6 = 54$ directly gives the answer 6.
- Choice B is correct.** **(3.CAR.5)** Area = $5 \times 2 = 10$ square units.
- Choice C is correct.** **(3.CAR.5)** Add 6 each time: $36 + 6 = 42$. This is the pattern for multiples of 6.
- Choice A is correct.** **(3.NPV.1)** The tens digit is 2. Since $2 < 5$, round down: 325 rounds to 300.
- Choice B is correct.** **(3.GM.5)** This is a square: $5 \times 5 = 25$ unit squares.
- The correct answer is 68.** **(3.CAR.7)** $7 \times 9 = 63$, and $63 + 5 = 68$.
- Choice C is correct.** **(3.NPV.7)** If one part is $\frac{1}{4}$ of the pizza, the pizza is divided into 4 equal parts.
- Choice C is correct.** **(3.GM.6)** The garden is $6 \text{ m} \times 2 \text{ m} = 12 \text{ m}^2$, which equals 12 unit squares of 1 m by 1 m.
- Choices A and C are correct.** **(3.NPV.7)** In partitive division, we know the number of groups (3 friends, 8 piles) and find the size of each. B is quotitive (measurement) because we know the size (4 cookies per bag) and find the number of bags. D is also quotitive. E is subtraction, not division.
- Choice C is correct.** **(3.GM.3)** A square is a special type of rectangle. Since a square has 4 right angles, it meets the definition of a rectangle.
- Choice D is correct.** **(3.CAR.6)** Multiply: 7 groups \times 6 students per group = 42 students.
- Choice D is correct.** **(3.CAR.8)** The picture shows 3 groups with 5 circles in each group, so the matching equation is $3 \times 5 = \square$.
- Choice C is correct.** **(3.NPV.10)** Folding a sheet into 2 equal parts creates two halves, each one is $\frac{1}{2}$.
- Choice C is correct.** **(3.NPV.11)** $\frac{4}{1} = 4$. Any number over 1 equals that number.
- Choice B is correct.** **(3.DA.1)** Shorter than $6\frac{3}{4}$ inches includes $6, 6\frac{1}{4}$, and $6\frac{1}{2}$ inches: that is $1 + 2 + 3 = 6$ pencils.
- Choice A is correct.** **(3.CAR.1)** Ones: $4 - 9$ requires regrouping, so $14 - 9 = 5$. Tens: $2 - 8$ requires regrouping, so $12 - 8 = 4$. Hundreds: $1 - 1 = 0$. Difference is 45.
- Choice A is correct.** **(3.GM.6)** The height is 4 and width is $6 = 3 + 3$. The distributive form is $4 \times (3 + 3) = (4 \times 3) + (4 \times 3) = 12 + 12 = 24$.
- Choice B is correct.** **(3.NPV.5)** Visual reasoning: same numerator (2), so both take 2 pieces. But $\frac{2}{3}$ divides the whole into 3 parts (each third is large), while $\frac{2}{6}$ divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces $>$ 2 small pieces, so $\frac{2}{3} > \frac{2}{6}$.
- The correct answer is 27 square units.** **(3.GM.6)** $9 \times 3 = 27$ square units. That means 27 unit tiles cover the rectangle.
- Choice A is correct.** **(3.GM.11)** The minute hand points to 11 minutes (just past the 2), and the hour hand is just past 2. The time is 2 : 11.
- Choice D is correct.** **(3.NPV.8)** $\frac{3}{4}$ of the distance from 0 to 4 means $\frac{3}{4} \times 4 = 3$. This lands at the 3 mark.
- Choice C is correct.** **(3.DA.2)** Red: $2 \times 3 = 6$. Yellow: $4 \times 3 = 12$. Total: $6 + 12 = 18$.
- Choice A is correct.** **(3.CAR.4)** $4 \times 7 = 28$. Count by 7s four times: 7, 14, 21, 28.
- Choice D is correct.** **(3.NPV.9)** This number line has thirds (3 equal parts), so only fractions with denominator 3 or 1 are tick marks. $\frac{1}{4}$ would need 4 equal parts.
- Choice D is correct.** **(3.CAR.4)** $9 \times 20 = 180$ (multiply $9 \times 2 = 18$, add zero), $6 \times 30 = 180$ (multiply $6 \times 3 = 18$, add zero), and $18 \times 10 = 180$. But $3 \times 50 = 150$ (multiply $3 \times 5 = 15$, add zero), so choice D does not equal 180.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 3 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Mentor

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3 GRADE 3 MATH PRACTICE TESTS

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Give your child the tools to build strong math skills and test confidence!

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