

3

Arizona

AASA

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



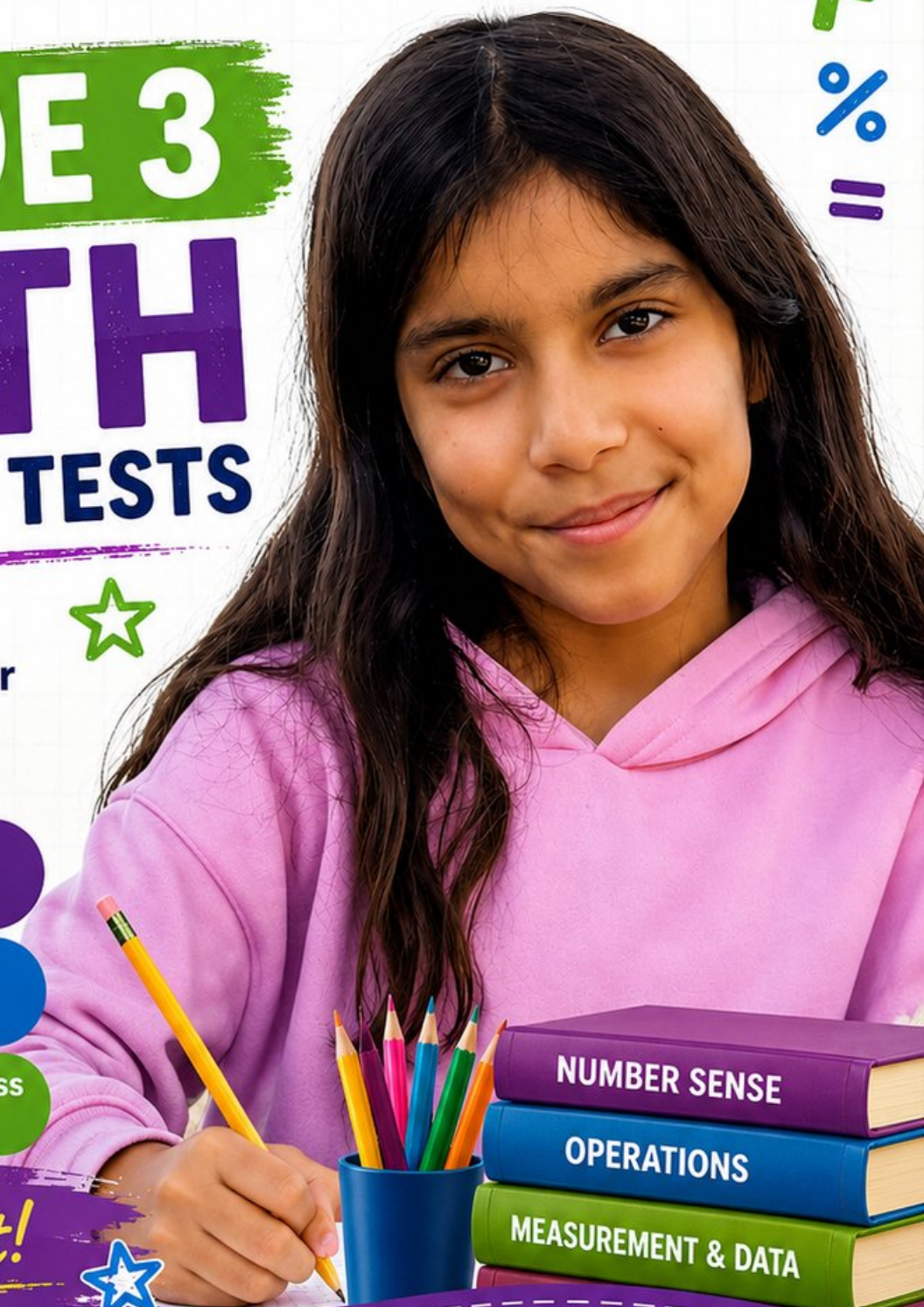
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice



Be Ready.
Do Your Best!



3 Arizona AASA 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, Arizona AASA 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 Arizona 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 Arizona AASA. 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 Arizona AASA 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 AASA 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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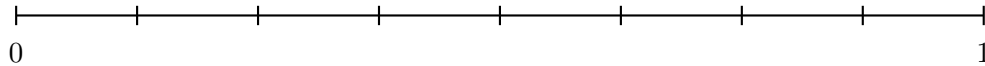
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1) Ben marks the location of $\frac{5}{6}$ on a number line from 0 to 1 divided into 6 equal parts. Which statement is TRUE?

- A. $\frac{5}{6}$ is 1 tick away from 1 C. $\frac{5}{6}$ is closer to 0 than to 1
 B. $\frac{5}{6}$ is 5 ticks away from 0 D. $\frac{5}{6}$ is at the 6th tick

2) On a number line from 0 to 1 with 8 equal parts, where is $\frac{6}{8}$?



- A. At the fourth tick C. At the sixth tick
 B. At the fifth tick D. At the seventh tick

3) Eli has 24 marbles. He makes 6 equal piles. How many marbles are in each pile?

- A. 3 C. 5
 B. 6 D. 4

4) Lily buys 3 packages of toy cars. Each package has 40 toy cars. How many toy cars does Lily buy?

- A. 34 C. 120
 B. 43 D. 1200

5) Which comparison is true?

- A. $\frac{3}{2} > \frac{3}{3}$ C. $\frac{3}{2} = \frac{3}{3}$
 B. $\frac{3}{2} < \frac{3}{3}$ D. $\frac{3}{3} > \frac{3}{2}$

6) Which of these has a perimeter of 24 feet?

- A. Square with side 4 ft C. Square with side 5 ft
 B. Rectangle with length 6 ft and width 3 ft D. Rectangle with length 8 ft and width 4 ft



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| |
|-----|
| 300 |
| 70 |
| 8 |

7)

The bar model above shows 378 broken into hundreds, tens, and ones. What is $378 + 215$?

A. 593

C. 592

B. 583

D. 602

8) Which of these equals 8×3 ?

A. $8 + 3 = 11$

C. $8 + 8 = 16$

B. $3 \times 3 = 9$

D. $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$

9) Eli ate $\frac{1}{3}$ of a pizza. Write an equivalent fraction that has 6 as the denominator.

1) A rectangular sign at school is 8 meters long and 4 meters wide. What is the area of the sign?

A. 12 sq m

B. 24 sq m

C. 32 sq m

D. 64 sq m

2) Round 662 to the nearest 10.

A. 660

B. 662

C. 665

D. 670

3) Which rectangle has an area of 12 square units?

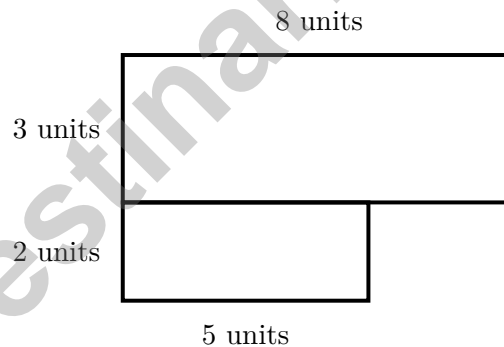
A. length 2, width 6

B. length 3, width 5

C. length 4, width 4

D. length 2, width 5

4) An L-shaped terrace is divided by dashed lines. The top rectangle is 8 units by 3 units. The bottom rectangle is 5 units by 2 units. What is the total area?



A. 24 sq units

B. 10 sq units

C. 34 sq units

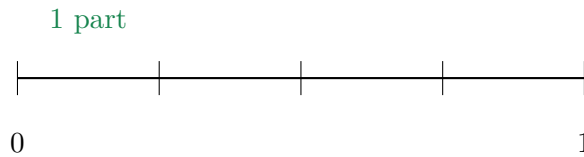
D. 240 sq units



5) Ben has 30 stickers. He puts them in piles of 10. How many piles does he make?

- A. 2 C. 4
 B. 40 D. 3

6) Count the equal parts on this number line. What unit fraction does it show?



- A. $\frac{1}{3}$ C. $\frac{1}{5}$
 B. $\frac{1}{4}$ D. $\frac{1}{6}$

7) Noah wants to use the associative property to solve $(3 \times 4) \times 2$. Which equation correctly uses the associative property?

- A. $(3 + 4) \times 2 = 14$ C. $(3 \times 4) \times 2 = 3 \times 4 \times 2 = 9$
 B. $(3 \times 4) \times 2 = 3 \times (4 + 2) = 18$ D. $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 3 \times 8 = 24$

8) A rectangle has area 8×12 . Using $12 = 7 + 5$, which shows the distributive property?

- A. $8 \times 12 = 8 \times (7 + 5) = (8 \times 7) + (8 \times 5) = 56 + 40 = 96$ C. $8 \times 12 = 8 + 12 + 7 + 5 = 32$
 B. $8 + 12 = 20$ D. $(8 + 7) + (5) = 20$

9) What is 6×50 ?

- A. 56 C. 300
 B. 65 D. 3000



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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

- 1) **Choice B is correct.** **(3.NF.A.2)** $\frac{5}{6}$ means $5 \times \frac{1}{6}$, so there are 5 equal steps from 0. Distractor A: distance to 1 is $\frac{1}{6}$, which is 1 part, not 1 tick per se (ambiguous). Distractor C: false; $\frac{5}{6}$ is much closer to 1. Distractor D: false; it is at the 5th tick.
- 2) **Choice C is correct.** **(3.NF.A.2)** $\frac{6}{8}$ is 6 out of 8 equal parts, which is at the sixth tick mark from 0.
- 3) **Choice D is correct.** **(3.OA.A.2)** $24 \div 6 = 4$. Divide the total marbles by the number of piles.
- 4) **Choice C is correct.** **(3.NBT.A.3)** 3 packages of 40 cars = $3 \times 40 = 120$ cars. Multiply $3 \times 4 = 12$, then add one zero.
- 5) **Choice A is correct.** **(3.NF.A.3)** Three halves equals 1.5 (greater than one whole). Three thirds equals 1 (exactly one whole). So $\frac{3}{2} > \frac{3}{3}$.
- 6) **Choice D is correct.** **(3.MD.C.8)** Option D is correct: $2(8) + 2(4) = 24$ ft. Option A is 16 ft, option B is 18 ft, and option C is 20 ft.
- 7) **Choice A is correct.** **(3.NBT.A.2)** $378 + 215$: ones $8 + 5 = 13$ (write 3, carry 1), tens $7 + 1 + 1 = 9$, hundreds $3 + 2 = 5$. Answer: 593.
- 8) **Choice D is correct.** **(3.OA.A.1)** 8×3 means 8 groups of 3, so $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$. Both equal 24.
- 9) **The correct answer is $\frac{2}{6}$.** **(3.NF.A.3)** Multiply the numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 10) **Choice B is correct.** **(3.MD.C.8)** Find each rectangle: top is $5 \times 3 = 15$ sq m; bottom is $4 \times 2 = 8$ sq m. Total: $15 + 8 = 23$ sq m.
- 11) **Choice B is correct.** **(3.MD.C.5)** Cover it with rows of unit squares: $6 \times 4 = 24$ square units.
- 12) **Choice C is correct.** **(3.MD.A.2)** Add: $1000 + 500 + 500 = 2000$ mL.
- 13) **Choice A is correct.** **(3.NF.A.1)** Six equal parts means each is $\frac{1}{6}$.
- 14) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 8. Since $8 \geq 5$, round up: 289 rounds to 300.
- 15) **Choice A is correct.** **(3.OA.A.3)** First find figures per case: 3 rows \times 5 figures per row = 15 figures per case. Then multiply by number of cases: $15 \times 2 = 30$ figures altogether.
- 16) **Choices A and C are correct.** **(3.OA.B.5)** A shows $5 \times (3 + 2) = 5 \times 3 + 5 \times 2$, which is the distributive property. C shows $3 \times (2 + 4) = 3 \times 2 + 3 \times 4$, also distributive. B is commutative, D is associative, and E is just a fact.
- 17) **Choice A is correct.** **(3.OA.C.7)** $3 \times 8 = 24$. Think of three groups of 8: $8 + 8 + 8 = 24$.
- 18) **The correct answer is 32 square units.** **(3.MD.C.7)** $5 + 3 = 8$, and $4 \times 8 = 32$ square units.
- 19) **Choice D is correct.** **(3.G.A.2)** Circle A is completely shaded = $\frac{1}{1} = 1$ whole. Circle B is only half shaded.
- 20) **Choice B is correct.** **(3.MD.C.6)** 8 units \times 3 units = 24 unit squares.
- 21) **Choice A is correct.** **(3.MD.C.8)** Very long rectangle: $9 \times 2 = 18$ square units. B is perimeter sum; D is concatenation.
- 22) **The correct answer is 8 equal parts.** **(3.G.A.2)** Eighths mean there are 8 equal parts.
- 23) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{2} = \frac{3}{6}$ because both represent one-half of the ribbon.
- 24) **Choice B is correct.** **(3.MD.C.6)** 8 square units is larger than 7, 6, or 4 square units.
- 25) **Choice A is correct.** **(3.OA.B.6)** From $6 \times 9 = 54$, one related division equation is $54 \div 6 = 9$ (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
- 26) **Choice D is correct.** **(3.OA.A.4)** Multiply: $5 \times 7 = 35$ hours.
- 27) **Choice D is correct.** **(3.OA.D.9)** Multiplying any number by 2 gives an even result, because $2 \times n$ means n groups of 2, and 2 is even. This pattern always holds: even \times any number = even.
- 28) **Choice D is correct.** **(3.OA.D.8)** Step 1: Oranges: $3 \times 7 = 21$. Step 2: Lemons: $2 \times 8 = 16$. Total: $21 + 16 = 37$ pieces.
- 29) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{3}{6}$ both equal half of a whole.
- 30) **Choice C is correct.** **(3.G.A.1)** A rectangle has 4 right angles, and a rhombus has 4 equal sides; both are quadrilaterals. They share the attribute of having four sides, even though they differ in other properties.

Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 3 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



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

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

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- ✓ Algebraic Thinking
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- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
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- ✓ Graphing & Data Analysis
- ✓ And More!



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