

8

Arizona

AASA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



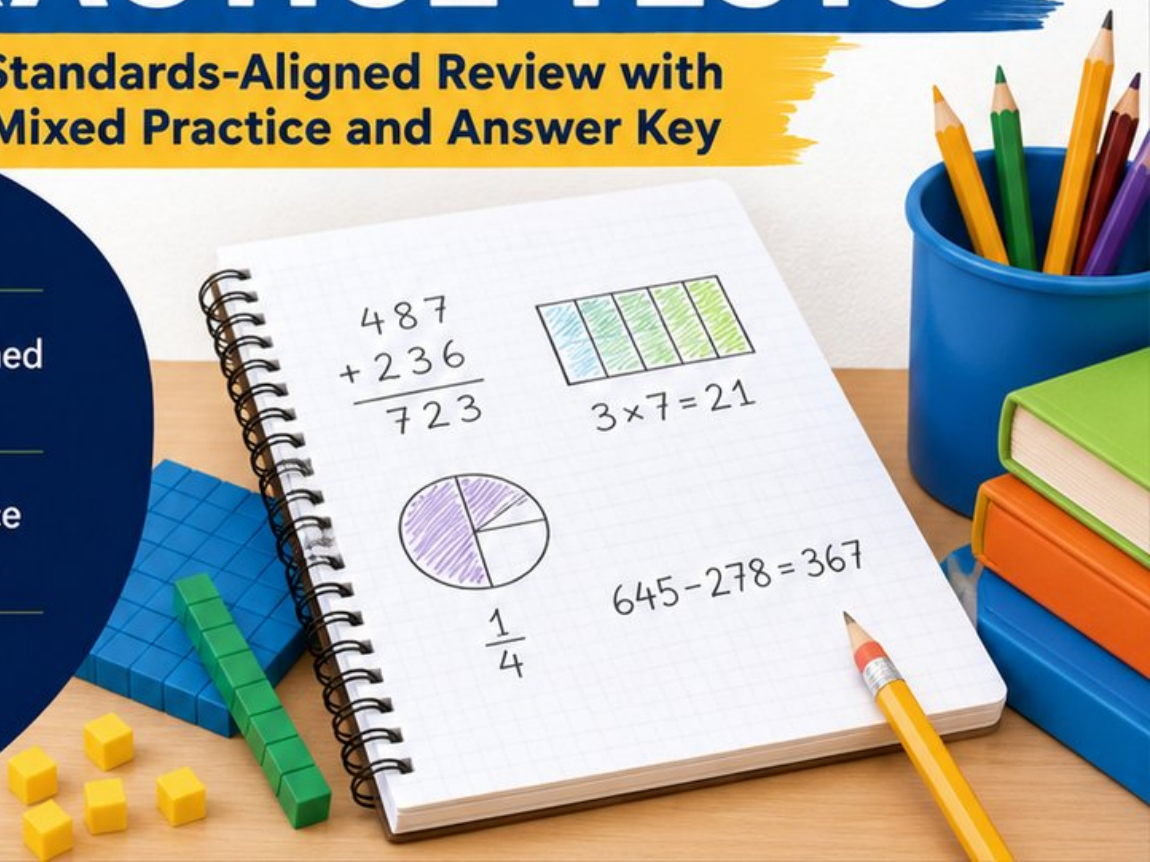
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Arizona AASA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Arizona, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Arizona AASA. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Arizona has desert trails, canyon shadows, cactus blooms, bright skies, and sunlit classroom windows, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and plan the route before solving.

Your Arizona Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Arizona book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Arizona, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the AASA

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Arizona focus: The practice path starts with desert trails, canyon shadows, cactus blooms, bright skies, and sunlit classroom windows. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	53
★ Practice Test 5	_____	64
★ Practice Test 6	_____	75
★ Practice Test 7	_____	87
★ Practice Test 8	_____	101
Practice Test Answer Keys	_____	112
Practice Test Answers and Explanations	_____	117

1) Lily has 3 jars of marbles. Each jar has 8 marbles. How many marbles does Lily have altogether?

A. 5

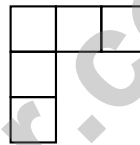
C. 25

B. 11

D. 24

2) What is 6×4 ?

3) Here is a shape that looks like an "L" or corner, made of unit squares:



Count the unit squares in this L-shaped figure. How many are there?

A. 3 unit squares

C. 6 unit squares

B. 5 unit squares

D. 8 unit squares

4) A teacher has 24 crayons and 8 students. She shares the crayons equally. How many crayons does each student get? Which multiplication fact helps you solve this?

A. $8 \times 3 = 24$ (each student gets 3 crayons)

C. $6 \times 4 = 24$ (wrong number of students)

B. $8 \times 4 = 32$ (too many crayons)

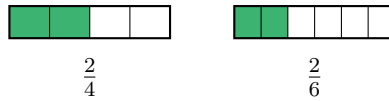
D. $8 + 3 = 11$ (adding, not dividing)



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5) What do all quadrilaterals have in common?

- A. They all have right angles C. They all have parallel sides
 B. They all have equal sides D. They all have 4 sides



6)

Which is true?

- A. $\frac{2}{4} < \frac{2}{6}$ C. $\frac{2}{4} = \frac{2}{6}$
 B. $\frac{2}{4} > \frac{2}{6}$ D. Cannot tell

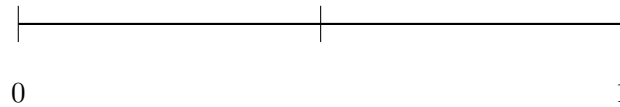
7) A line plot shows book lengths in inches: $7, 7\frac{1}{4}, 7\frac{1}{2}, 7\frac{3}{4}, 8$. Measurements: 2 at 7 inches, 1 at $7\frac{1}{4}$ inches, 4 at $7\frac{1}{2}$ inches, 2 at $7\frac{3}{4}$ inches, and 1 at 8 inches. What is the range of book lengths?

8) A rectangle has 6 equal parts. Sam colors 3 parts. Which fraction does Sam color?



- A. $\frac{1}{6}$ C. $\frac{3}{6}$
 B. $\frac{2}{6}$ D. $\frac{4}{6}$

- 9) This is a number line from 0 to 1 divided into equal parts. How many parts do you see?



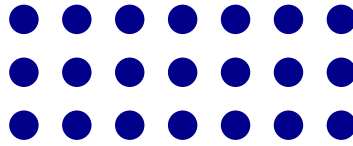
- A. 1 part C. 3 parts
 B. 2 parts D. 4 parts
- 10) A bar graph shows minutes played at recess. Each unit is 2 minutes. Sofia's bar is 5 units. How many minutes did Sofia play?
- A. 7 C. 12
 B. 10 D. 15
- 11) What is $54 \div 9$?

- 12) A tile floor has area 18 square feet. Which dimensions could make this area?
- A. 2 ft and 8 ft C. 4 ft and 5 ft
 B. 3 ft and 6 ft D. 4 ft and 6 ft



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1) Look at this array. It has 3 rows and \square columns. There are 21 dots in total.



$$3 \times \square = 21$$

A. 9

C. 6

B. 8

D. 7

2) What fraction is at the right endpoint of a number line split into 2 equal parts?



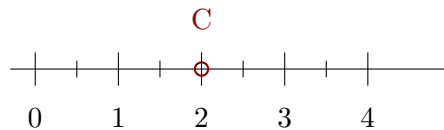
3) A bar graph shows the scale as 5 items per unit. If a bar is 4 units tall, it represents how many items?

A. 4 items

C. 20 items

B. 9 items

D. 25 items



4)

The number line from 0 to 4 is split into halves. Point C is at 2. How many halves is that?

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

C. $\frac{1}{2}$

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

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



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5) Which fraction is equivalent to $\frac{1}{3}$?

- A. $\frac{1}{6}$
 B. $\frac{2}{6}$

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

6) Talia has 45 stickers. She wants to arrange them in 9 equal rows. How many stickers will be in each row?

- A. 4 stickers
 B. 7 stickers

- C. 6 stickers
 D. 5 stickers

7) A rectangle is 10 units long and 2 units wide. What is its area?

- A. 20 sq units
 B. 12 sq units

- C. 30 sq units
 D. 40 sq units

8) Two rectangles have the same PERIMETER (distance around). Does that mean they have the same AREA (space inside)?



Rectangle A
Perimeter 12



Rectangle B
Perimeter 12

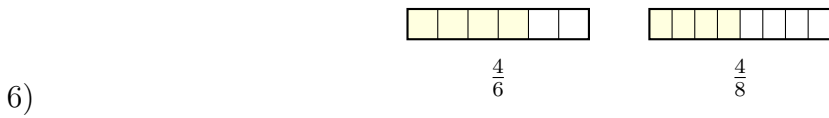
- A. Yes, same perimeter means same area
 B. No, they can have different areas even with the same perimeter
 C. Only if they are both squares
 D. Area and perimeter are the same thing



- 1) What is 9×80 ?
- A. 72 (forgot to multiply by 10) C. 89 (added the digits)
 B. 7200 (added two zeros) D. 720
- 2) Lily and Mia are comparing rectangles. Lily's rectangle is 6 units long and 5 units wide. Mia's rectangle is 7 units long and 4 units wide. Who has the larger area?
- A. Mia C. They are equal
 B. Lily D. Cannot be determined
- 3) Which is equivalent to $\frac{1}{4}$?
- A. $\frac{2}{4}$ C. $\frac{2}{8}$
 B. $\frac{1}{8}$ D. $\frac{4}{8}$
- 4) Look at this pattern: 5, 10, 15, 20, 25, 30.
Which rule describes this pattern?
- A. Add 3 each time C. Double the number
 B. Add 10 each time D. Add 5 each time (skip count by 5)
- 5) Lily bakes 36 cupcakes. She divides them equally into 4 boxes. She sells 2 boxes.
How many cupcakes does she have left?
- A. 9 C. 27
 B. 18 D. 36



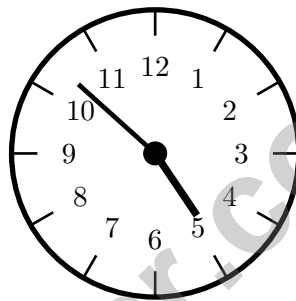
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Compare $\frac{4}{6}$ and $\frac{4}{8}$. Which is true?

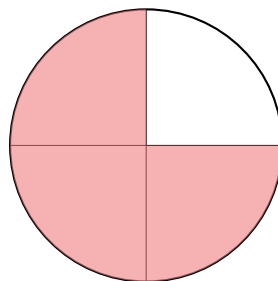
- A. $\frac{4}{6} > \frac{4}{8}$ (same numerator, $6 > 8$)
- B. $\frac{4}{6} < \frac{4}{8}$ ($8 > 6$)
- C. $\frac{4}{6} = \frac{4}{8}$
- D. $\frac{4}{8} > \frac{4}{6}$ (more pieces means more amount)

7) Look at the clock. What time does it show?



- A. 5 : 26
- B. 4 : 52
- C. 9 : 20
- D. 9 : 52

8) A circle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the circle is NOT shaded?



- A. $\frac{1}{4}$
- B. $\frac{2}{4}$
- C. $\frac{3}{4}$
- D. $\frac{4}{4}$



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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (3.OA.A.3) There are 3 equal groups of 8 marbles. Multiply: $3 \times 8 = 24$ marbles.
- 2) **The correct answer is 24.** (3.OA.B.5) By the commutative property, $4 \times 6 = 6 \times 4 = 24$.
- 3) **Choice B is correct.** (3.MD.C.5) The vertical part has 3 unit squares. The horizontal part has 2 more unit squares. Total: $3 + 2 = 5$ unit squares cover this L-shaped figure.
- 4) **Choice A is correct.** (3.OA.B.6) This problem requires division: $24 \div 8 = \square$. We use the unknown-factor strategy: $\square \times 8 = 24$. The multiplication fact $8 \times 3 = 24$ tells us each student gets 3 crayons. We find the missing factor using multiplication.
- 5) **Choice D is correct.** (3.G.A.1) The word “quadrilateral” means “four sides.” All quadrilaterals, whether squares, rectangles, or trapezoids, have exactly 4 sides.
- 6) **Choice B is correct.** (3.NF.A.3) Same numerator: fourths are bigger pieces than sixths. Two fourths is greater than two sixths.
- 7) **The correct answer is 1 inch.** (3.MD.B.4) Range = max - min = $8 - 7 = 1$ inch.
- 8) **Choice C is correct.** (3.G.A.2) Three colored parts out of 6 equal parts is $\frac{3}{6}$.
- 9) **Choice B is correct.** (3.NF.A.1) One tick in the middle divides into 2 equal parts.
- 10) **Choice B is correct.** (3.MD.B.3) $5 \times 2 = 10$ minutes.
- 11) **The correct answer is 6.** (3.OA.C.7) $54 \div 9 = 6$ because $6 \times 9 = 54$.
- 12) **Choice B is correct.** (3.MD.C.6) $3 \times 6 = 18$ sq ft. The other choices do not equal 18.
- 13) **Choice A is correct.** (3.MD.A.1a) At 10 : 51, the minute hand points to 51 minutes, just past the 10. The hour hand is between 10 and 11, close to 11. Option 1 shows this accurately.
- 14) **Choice C is correct.** (3.MD.C.7) $4 \times 2 = 8$ is correct. Choice A: $5 \times 2 = 10$. Choice B: $3 \times 3 = 9$. Choice D: $6 \times 6 = 36$.
- 15) **Choice C is correct.** (3.OA.D.9) Add 6 each time: $30 + 6 = 36$. This is skip counting by 6.
- 16) **Choice B is correct.** (3.NBT.A.3) When we multiply 8×40 , we can break it down: $8 \times 40 = 8 \times (4 \times 10) = (8 \times 4) \times 10 = 32 \times 10 = 320$. The zero comes from multiplying by 10, not from the zero in “40”.
- 17) **Choices B and C are correct.** (3.OA.A.4) Choice B is true because $48 \div 6 = 8$. Choice C is true because $7 \times 7 = 49$. Choice A is false ($6 \times 8 = 48$, not 42). Choice D is false ($54 \div 9 = 6$, not 5). Choice E is false ($4 \times 9 = 36$, not 35).
- 18) **Choice C is correct.** (3.OA.D.8) Step 1: After eating: $18 - 7 = 11$ apples. Step 2: Add new: $11 + 4 = 15$ apples. (Choice A is step 1 only.)
- 19) **Choice A is correct.** (3.NBT.A.1) The ones digit is 4. Since $4 < 5$, round down: 734 rounds to 730.
- 20) **Choice A is correct.** (3.NBT.A.2) Ones: $7 + 6 = 13$ (write 3, carry 1). Tens: $6 + 1 + 1 = 8$. Hundreds: $5 + 2 = 7$. Answer: 783.
- 21) **Choice C is correct.** (3.NF.A.1) Picture C shows a rectangle divided into 4 equal parts with 1 part shaded, which is $\frac{1}{4}$.
- 22) **Choice B is correct.** (3.MD.A.2) Subtract: $280 - 250 = 30$ g.
- 23) **Choice C is correct.** (3.MD.C.8) Left: $6 \times 5 = 30$ sq ft. Right: $4 \times 3 = 12$ sq ft. Total: $30 + 12 = 42$ sq ft.
- 24) **Choice D is correct.** (3.MD.C.5) Rectangle A: $2 \times 6 = 12$ square units. Rectangle B: $3 \times 4 = 12$ square units. Both have the same area.
- 25) **Choice B is correct.** (3.MD.C.6) A unit square by definition has side length 1 unit. In centimeters, that is 1 cm by 1 cm, giving area $1 \text{ cm} \times 1 \text{ cm} = 1$ square cm.
- 26) **Choice C is correct.** (3.G.A.2) One whole cake can be written as $\frac{1}{1}$ because the numerator and denominator are the same.
- 27) **Choice B is correct.** (3.NF.A.2) $\frac{2}{6}$ is between $\frac{1}{6}$ (tick 1) and $\frac{3}{6}$ (tick 3). It's the middle tick.
- 28) **Choice B is correct.** (3.MD.C.8) Area = length \times width = $9 \times 4 = 36$ square meters.
- 29) **Choice B is correct.** (3.MD.C.7) Use the distributive property: multiply 6 by each part, then add.
- 30) **Choice A is correct.** (3.NF.A.3) Multiply numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$. Both bars show the same shaded length.



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Ahoy, Math Sailor!

◇ You sailed through 8 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 8 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

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- ✓ Fractions & Decimals
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