

# 7 Arizona

## AASA

### Grade 3 MATH

### PRACTICE TESTS

Standards-Aligned Practice with Review, Answer Keys, and Explanations



7 Full-Length Practice Tests



Standards-Aligned Math Practice

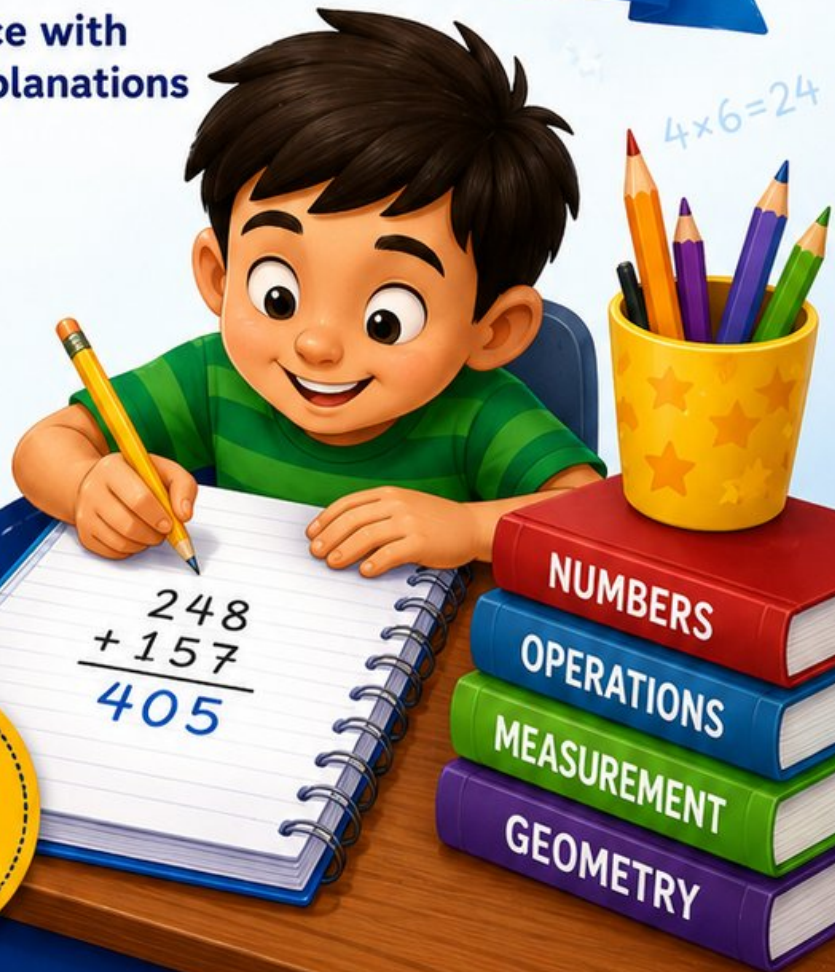


Detailed Answer Keys and Explanations



Build Confidence. Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



# 7 Arizona AASA Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails 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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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Arizona AASA. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

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.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Arizona students, each trail moves through desert trails, canyon shadows, cactus blooms, bright skies, and sunlit classroom windows: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Arizona Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Arizona AASA path.



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For more practice  
& answers

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1) Mia buys stickers in packs of 10. She buys 1 pack, then 2 packs, then 3 packs, then 4 packs.

How many stickers does she have with 4 packs?

- A. 10                                       C. 30  
 B. 20                                       D. 40

2) Ben pours milk from two containers. One has 750 mL and the other has 250 mL. How many milliliters of milk in total?

- A. 500 mL                                       C. 1000 mL  
 B. 750 mL                                       D. 1500 mL

3) What fraction is the second tick on a number line split into 8 equal parts?



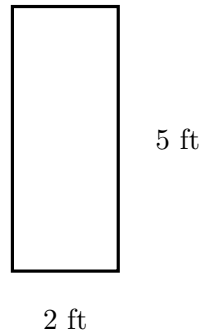
4) A picture graph shows colored beads. Red: 5 symbols (scale: 4). Blue: 6 symbols (scale: 4). Green: 4 symbols (scale: 4). What is the total number of beads?

- A. 15                                       C. 60  
 B. 48                                       D. 64

5) Ben is covering a counter with square tiles. The counter is 8 tiles long and 3 tiles wide. How many tiles does he need?

- A. 11 tiles                                       C. 16 tiles  
 B. 24 tiles                                       D. 5 tiles





6)

A vertical rectangle is 2 feet wide and 5 feet tall. What is the area?

- A. 7 sq ft                       C. 15 sq ft  
 B. 10 sq ft                     D. 20 sq ft

7) At what time does the hour hand and minute hand point straight up on a clock?

- A. 3 : 00                       C. 9 : 00  
 B. 6 : 00                       D. 12 : 00

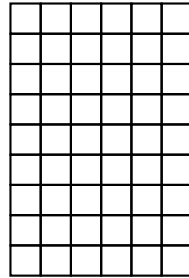
8) Lily makes 4 necklaces using 5 beads for each necklace. How many beads does Lily use?

- A. 9                               C. 25  
 B. 15                             D. 20



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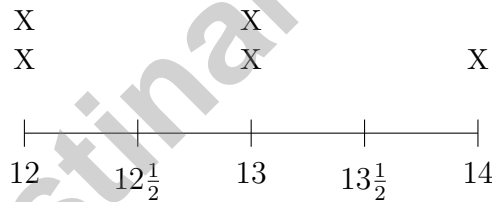
9) A rectangular playground is 6 unit squares wide and 9 unit squares long. Look at the grid:



How many unit squares cover the playground?

- A. 15 unit squares (just one row and column)
- C. 48 unit squares
- B. 54 unit squares
- D. 72 unit squares

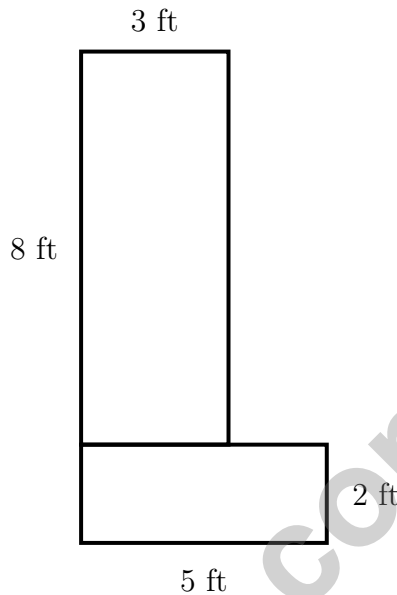
10) A line plot shows dog heights in inches: 12,  $12\frac{1}{2}$ , 13,  $13\frac{1}{2}$ , 14.



Which height has no measurements?

- A. 12 inches
- C.  $13\frac{1}{2}$  inches
- B.  $12\frac{1}{2}$  inches
- D. 14 inches

- 1) An L-shaped garden is divided into two rectangles by a dashed line. The vertical part is 3 ft by 8 ft. The horizontal part is 5 ft by 2 ft. What is the total area?



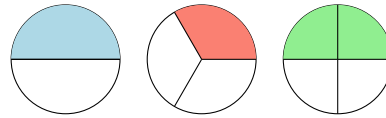
- A. 10 sq ft       C. 34 sq ft  
 B. 24 sq ft       D. 240 sq ft
- 2) Lily's garden is a rectangle with dimensions 4 yards by 7 yards. What is the area of her garden?
- A. 11 sq yd       C. 28 sq yd  
 B. 22 sq yd       D. 30 sq yd
- 3) Lily's sandbox is a square with sides of 5 feet. How many square feet is the sandbox?
- A. 10 sq ft       C. 25 sq ft  
 B. 20 sq ft       D. 30 sq ft



4) Ben draws two bars. Bar 1 is divided into 4 equal parts with 2 parts shaded. Bar 2 is divided into 8 equal parts with 4 parts shaded. The bars are the same length. Are the shaded regions the same size?

- A. No, Bar 1 is larger.                       C. No, Bar 2 is larger.  
 B. Cannot tell without measuring.        D. Yes, they are the same size.

5) Which two circles show equivalent fractions?



Circle 1:  $\frac{1}{2}$     Circle 2:  $\frac{1}{3}$     Circle 3:  $\frac{2}{4}$

- A. Circles 1 and 2                                       C. Circles 1 and 3  
 B. Circles 2 and 3                                       D. All three circles
- 6) A rectangle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the rectangle is shaded?

7) A baker made 567 cookies. His scale is only accurate to the nearest 10. What will the scale show?

- A. 560     C. 570  
 B. 567     D. 600

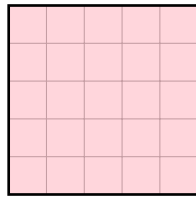


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1) When you round 45 to the nearest 10, why does the ones digit matter more than the hundreds digit?

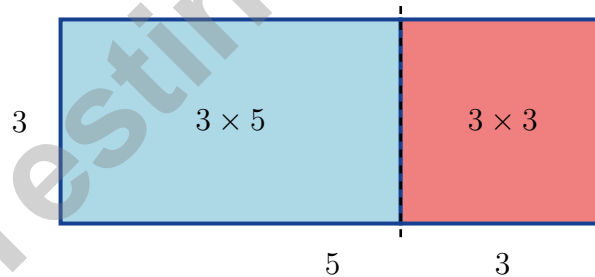
- A. Because we are rounding to the nearest 10, not the nearest 100
- B. Because the ones digit is always bigger
- C. Because 45 is a large number
- D. Because 50 is better than 40

2) 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

3) Mia splits a rectangle to show  $3 \times 8 = 3 \times (5 + 3)$ .

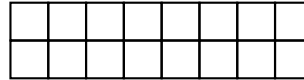


What is  $3 \times 5 + 3 \times 3$ ?

- A. 14
- B. 20
- C. 27
- D. 24



- 4) Mia covers a 2 by 8 rectangle with unit square tiles. Here is the grid:



Count the unit squares. How many are there?

- A. 10 unit squares (the perimeter)       C. 8 unit squares  
 B. 16 unit squares       D. 20 unit squares
- 5) Look at the picture. The rectangle is divided into equal parts, and some parts are shaded.



Which fraction is shaded?

- A.  $\frac{1}{4}$        C.  $\frac{3}{4}$   
 B.  $\frac{4}{1}$        D.  $\frac{2}{4}$
- 6) Which product is the greatest?
- A.  $7 \times 40 = 280$        C.  $6 \times 50 = 300$   
 B.  $8 \times 30 = 240$        D.  $9 \times 20 = 180$

- 7) Mia tiles a square with 8 rows and 8 columns of unit squares. What is the area of her square in square units?



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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 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.D.9)**  $4 \times 10 = 40$ . This is skip counting by 10 four times: 10, 20, 30, 40.
- 2) **Choice C is correct.** **(3.MD.A.2)** Add:  $750 + 250 = 1000$  mL.
- 3) **The correct answer is  $\frac{2}{8}$ .** **(3.NF.A.2)** The second tick out of 8 equal parts is  $\frac{2}{8}$ .
- 4) **Choice C is correct.** **(3.MD.B.3)** Red:  $5 \times 4 = 20$ . Blue:  $6 \times 4 = 24$ . Green:  $4 \times 4 = 16$ . Total:  $20 + 24 + 16 = 60$ .
- 5) **Choice B is correct.** **(3.MD.C.5)** Multiply length by width:  $8 \times 3 = 24$  tiles.
- 6) **Choice B is correct.** **(3.MD.C.7)** Area =  $2 \times 5 = 10$  square feet.
- 7) **Choice D is correct.** **(3.MD.A.1a)** Both the hour and minute hands point straight up (at 12) only at 12 : 00.
- 8) **Choice D is correct.** **(3.OA.A.3)** Multiply:  $4 \text{ necklaces} \times 5 \text{ beads per necklace} = 20$  beads.
- 9) **Choice B is correct.** **(3.MD.C.5)** Count the rows: 9 rows. Count across: 6 unit squares per row. Total:  $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 54$  unit squares cover the playground.
- 10) **Choice C is correct.** **(3.MD.B.4)** Looking at the line plot, the mark at  $13\frac{1}{2}$  has no X's above it, so there are no measurements at that height.
- 11) **Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing addend:  $650 - 367 = 283$ . Check:  $367 + 283 = 650$ .
- 12) **Choice B is correct.** **(3.OA.D.8)** Step 1: Multiply:  $2 \times 4 = 8$  tomato plants. Step 2: Add:  $8 + 3 = 11$  plants. (Choice A is step 1 only.)
- 13) **Choice D is correct.** **(3.OA.B.6)** To solve  $72 \div 8 = \square$ , find  $\square \times 8 = 72$ . The multiplication fact  $8 \times 9 = 72$  tells us the answer is 9 items per group.
- 14) **The correct answer is 6.** **(3.NF.A.2)** The denominator doubles, so the numerator doubles:  $3 \times 2 = 6$ .
- 15) **Choice B is correct.** **(3.MD.C.6)** Option B is  $2 \times 3 = 6$  unit squares. Option A has 3 unit squares, Option C has 4, and Option D has 5.
- 16) **The correct answer is 60.** **(3.NBT.A.3)** 6 boxes of 10 crayons =  $6 \times 10 = 60$  crayons.
- 17) **Choices A and B are correct.** **(3.G.A.2)**  $\frac{4}{2}$  has 4 halves = 2 wholes.  $\frac{6}{3}$  has 6 thirds = 2 wholes. Choice C equals 1, and choices D and E do not equal 2.
- 18) **Choice C is correct.** **(3.NF.A.3)** The denominator was multiplied by 3 (from 2 to 6). Multiply the numerator by 3:  $1 \times 3 = 3$ .
- 19) **Choice D is correct.** **(3.OA.A.4)** Divide:  $18 \div 2 = 9$ . Each box weighs 9 units. Check:  $2 \times 9 = 18$ .
- 20) **Choice A is correct.** **(3.MD.C.8)** A square has 4 equal sides.  $20 \div 4 = 5$  ft per side.
- 21) **Choice D is correct.** **(3.OA.C.7)**  $56 \div 7 = 8$  cookies in each box. Verify:  $8 \times 7 = 56$ . Distractors: C is  $56 - 7$ ; D is  $7 \times 9$ .
- 22) **Choice D is correct.** **(3.OA.A.1)**  $4 \times 5$  means "4 groups of 5" (or  $5 + 5 + 5 + 5$ ). Each group has 5 objects, and there are 4 groups.
- 23) **Choice B is correct.** **(3.MD.C.6)** Count the top row: 5 squares. Count the center column below: 2 more squares. Total:  $5 + 2 = 7$  unit squares.
- 24) **Choice B is correct.** **(3.NF.A.3)**  $\frac{1}{2}$  and  $\frac{2}{4}$  represent the same amount. Both show half of a whole.
- 25) **Choice C is correct.** **(3.G.A.1)** Any 4-sided shape with 4 right angles is either a rectangle or a square. A square is just a special rectangle with equal sides.
- 26) **Choice A is correct.** **(3.NF.A.3)** Eli ate the whole bar because  $\frac{3}{3} = 1$ . Mia ate less than the whole bar, so Eli ate more.
- 27) **Choice A is correct.** **(3.NF.A.1)** There are 2 halves in the interval, but 4 fourths. So  $4 - 2 = 2$  more fourths.
- 28) **Choice A is correct.** **(3.MD.C.7)** Height is 4, widths are 4 and 5, totaling 9. Distributive property:  $4 \times (4 + 5) = 4 \times 9 = 36$ .
- 29) **Choice A is correct.** **(3.OA.A.2)** If  $24 \div ? = 4$ , then  $? = 24 \div 4 = 6$ . Check:  $24 \div 6 = 4$  is correct.
- 30) **Choice D is correct.** **(3.NBT.A.1)** Numbers from 55 to 64 round to 60. The number 65 has ones  $5 \geq 5$ , so it rounds to 70, not 60.



## Hi, Hero!

◇ Once there was a Grade 3 student who took 7 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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Question  
Types



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- ✓ Algebraic Thinking
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