

5

Arizona

AASA

GRADE 3

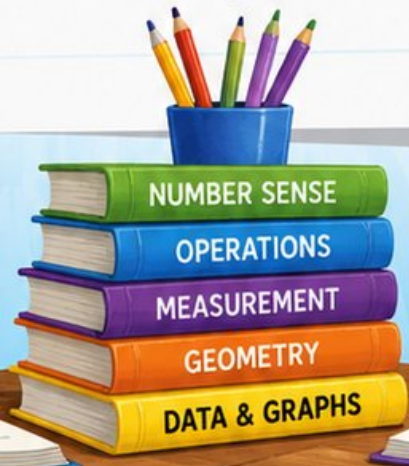
MATH

PRACTICE TESTS

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



$24 \div 3 = 8$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

# 5 Arizona AASA Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Arizona AASA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Arizona has desert trails, canyon views, cactus shadows, and sunny classrooms where sharp thinking can shine. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, “Does this answer fit the question?”

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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1) A rectangular piece of paper is 9 inches long and 5 inches wide. How much area does the paper cover?

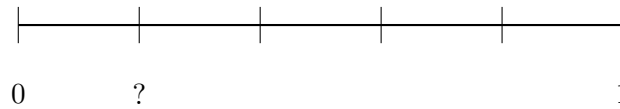
A. 14 sq in

C. 45 sq in

B. 28 sq in

D. 90 sq in

2) A number line from 0 to 1 has equally spaced tick marks. There are 4 tick marks not counting 0 and 1. What is the unit fraction at the first tick?



A.  $\frac{1}{5}$

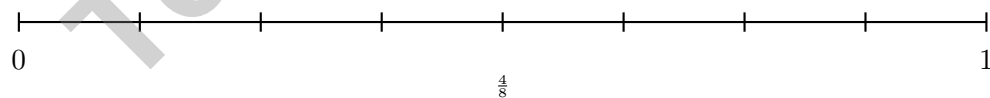
C.  $\frac{1}{3}$

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

D.  $\frac{2}{5}$

3) Find  $6 \times 5 + 6 \times 3$ .

4) On a number line from 0 to 1 divided into 8 equal parts, which two fractions name the same point?



A.  $\frac{1}{2}$  and  $\frac{4}{8}$

C.  $\frac{3}{8}$  and  $\frac{5}{8}$

B.  $\frac{2}{8}$  and  $\frac{3}{8}$

D.  $\frac{2}{4}$  and  $\frac{6}{8}$



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5) Ben ran  $\frac{5}{6}$  of a mile. Lily ran  $\frac{5}{8}$  of a mile. Who ran farther?

- A. Ben  C. They ran the same distance  
 B. Lily  D. Cannot tell from the fractions

6) Which repeated addition equals  $9 + 9 + 9 + 9$ ?

- A.  $3 \times 9 = 27$   C.  $5 \times 9 = 45$   
 B.  $9 \times 9 = 81$   D.  $4 \times 9 = 36$

7) A rectangular floor needs 6 rows of tiles with 9 tiles in each row. How many tiles are needed in total?

- A. 15  C. 36  
 B. 54  D. 69

8) Write the whole number 4 as a fraction with denominator 1.

9) Which equation is false?

- A.  $6 \times (10 + 1) = (6 \times 10) + (6 \times 1) = 60 + 6 = 66$   C.  $3 \times (7 + 1) = (3 \times 7) + (3 \times 1) = 21 + 3 = 24$   
 B.  $4 \times (5 + 2) = (4 \times 5) + (4 \times 2) = 20 + 8 = 28$   D.  $5 \times (6 + 3) = 5 \times 6 - 5 \times 3 = 30 - 15 = 15$



10) Noah draws a rectangle with length 5 units and width 4 units. The rectangle has 5 rows of 4 unit squares. Which repeated addition shows the area?

A.  $5 + 5 + 5 + 5$

C.  $5 + 4 + 5 + 4$

B.  $4 + 4 + 4 + 4 + 4$

D.  $4 + 5$

11) Which multiplication fact helps you solve  $32 \div 8$ ?

A.  $4 \times 8 = 32$

C.  $8 \times 8 = 64$

B.  $5 \times 8 = 40$

D.  $3 \times 8 = 24$

12) Eli is looking at a number line from 0 to 3 divided into 6 equal parts. He wants to locate  $\frac{3}{6}$  of the distance from 0 to 3. Is he closer to 1 or to 2?

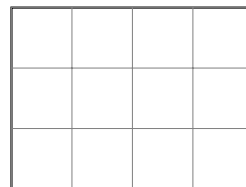
 A. Closer to 0 C. Closer to 3 B. Equally close to 1 and 2 D. Closer to 1

13) Three children saved money. Ben saved \$145, Lily saved \$208, and Noah saved \$197. How much did they save in total?

 A. \$550 C. \$450 B. \$540 D. \$560

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

3 units



4 units

 A. 7 square units C. 14 square units B. 8 square units D. 12 square units

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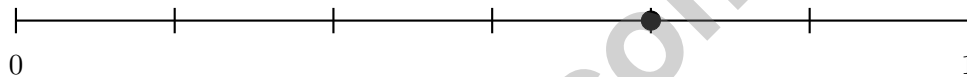
1) A rectangular mirror is 6 inches wide and 9 inches tall. How much area does the mirror cover?

- A. 30 sq in                       C. 54 sq in  
 B. 108 sq in                     D. 15 sq in

2) Ben ate  $\frac{1}{4}$  of a sandwich. Mia ate  $\frac{1}{2}$  of a sandwich of the same size. Who ate more?

- A. Ben ( $4 > 2$ , so fourths are more)     D. Cannot tell without knowing the sandwich size  
 B. Mia  
 C. They ate the same amount

3) A number line from 0 to 1 has 6 equal parts. The dot marks which fraction?



- A.  $\frac{2}{6}$                                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                                        D.  $\frac{5}{6}$

4) If you have the number \_\_\_\_\_, and you round it to the nearest 10, you get 70. You also know the number is odd. Which number could it be?

- A. 65                                       C. 72  
 B. 68                                       D. 74

5) How many stars are there? Skip count by 10s to find the total.

3 groups of 10 =  $3 \times 10 = ?$



- A. 13                                       C. 31  
 B. 103                                     D. 30



6) On a number line from 0 to 1 divided into 4 equal parts, how many unit fractions  $\frac{1}{4}$  fit between 0 and the second tick?

A. 1

B. 2

C. 3

D. 4

7) Write a fraction equivalent to  $\frac{3}{6}$ .

8) If you have  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ , what fraction is the total?

A.  $\frac{4}{6}$

B.  $\frac{1}{6}$

C.  $\frac{4}{24}$

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

9) Which fraction is NOT equivalent to  $\frac{2}{4}$ ?

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

B.  $\frac{3}{6}$

C.  $\frac{4}{8}$

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

10) A picture graph shows toy soldiers in a collection. Each soldier drawing is 10 soldiers. Carlos has 3 drawings. How many soldiers does Carlos have?

A. 13

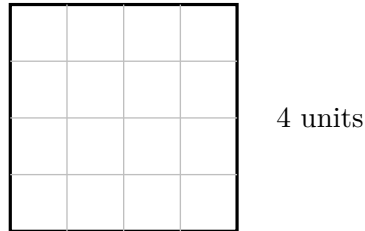
B. 20

C. 30

D. 40



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1) 4 units

What is the area of this square?

- A. 8 sq units                       C. 12 sq units  
 B. 16 sq units                       D. 20 sq units

2) Lily wrote these four facts about the same numbers. Which one does NOT belong in the fact family?

- A.  $36 \div 6 = 6$                        C.  $36 \div 9 = 4$   
 B.  $9 \times 4 = 36$                        D.  $4 \times 9 = 36$

3) A number line from 0 to 1 has one tick mark in the middle. What is the unit fraction?

- A.  $\frac{1}{2}$                                        C.  $\frac{1}{4}$   
 B.  $\frac{1}{3}$                                        D.  $\frac{1}{5}$

4)  $\frac{3}{4} = \frac{?}{8}$ . What is the missing numerator?

- A. 4                                       C. 6  
 B. 5                                       D. 7



5) Which fraction is equal to the whole number 5?

- A.  $\frac{5}{1}$   
 B.  $\frac{5}{5}$

- C.  $\frac{1}{5}$   
 D.  $\frac{5}{2}$

6) A park needs sod for a rectangular field 9 feet long and 7 feet wide. What is the area?

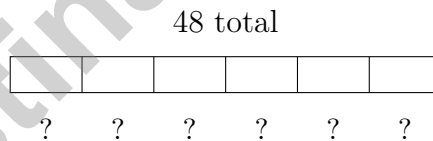
- A. 32 sq ft  
 B. 56 sq ft

- C. 63 sq ft  
 D. 72 sq ft

7) Draw a quadrilateral that is not a rectangle, square, or rhombus.



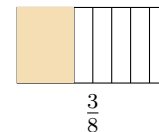
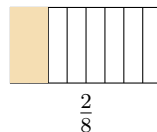
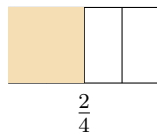
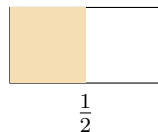
8) The bar model shows 48 divided into 6 equal parts. What is each part?



- A. 6  
 B. 12

- C. 10  
 D. 8

9) Which pair of fractions shows the SAME amount shaded?



- A.  $\frac{1}{2}$  and  $\frac{2}{4}$   
 B.  $\frac{2}{4}$  and  $\frac{2}{8}$

- C.  $\frac{1}{2}$  and  $\frac{2}{8}$   
 D.  $\frac{2}{4}$  and  $\frac{3}{8}$



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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 C is correct.** **(3.MD.C.7b)** Area = length  $\times$  width =  $9 \times 5 = 45$  square inches.
- 2) **Choice A is correct.** **(3.NF.A.2a)** Four internal tick marks create 5 equal parts total. The first tick is at the unit fraction  $\frac{1}{5}$ .
- 3) **The correct answer is 48.** **(3.OA.B.5)**  $6 \times 5 = 30$  and  $6 \times 3 = 18$ , so  $30 + 18 = 48$ .
- 4) **Choice A is correct.** **(3.NF.A.2)** Both  $\frac{1}{2}$  and  $\frac{4}{8}$  represent the point halfway from 0 to 1 on a number line.
- 5) **Choice A is correct.** **(3.NF.A.3d)** Same numerator (5): sixths are bigger pieces than eighths. So  $\frac{5}{6} > \frac{5}{8}$ . Ben ran farther.
- 6) **Choice D is correct.** **(3.OA.A.1)** The addition  $9 + 9 + 9 + 9$  has four 9's, so it equals  $4 \times 9 = 36$ .
- 7) **Choice B is correct.** **(3.MD.C.7a)**  $6 \times 9 = 54$  tiles. Larger product.
- 8) **The correct answer is  $\frac{4}{1}$ .** **(3.NF.A.3c)** Any whole number  $n$  can be written as  $\frac{n}{1}$ . So  $4 = \frac{4}{1}$ .
- 9) **Choice D is correct.** **(3.MD.C.7c)** The distributive property uses addition:  $5 \times (6 + 3) = (5 \times 6) + (5 \times 3) = 30 + 15 = 45$ , not subtraction.
- 10) **Choice B is correct.** **(3.MD.C.7)** With length 5 and width 4, you add the width 4 five times:  $4 + 4 + 4 + 4 + 4 = 20$ . This equals  $5 \times 4 = 20$  square units.
- 11) **Choice A is correct.** **(3.OA.B.6)** Division is an unknown-factor problem.  $32 \div 8 = \square$  is the same as finding  $\square \times 8 = 32$ , which gives  $\square = 4$ . Distractors B, C, D are off-by-one or incorrect products.
- 12) **Choice B is correct.** **(3.NF.A.2b)**  $\frac{3}{6} = \frac{1}{2}$ . Halfway from 0 to 3 is 1.5, exactly between 1 and 2.
- 13) **Choice A is correct.** **(3.NBT.A.2)** Add three numbers:  $145 + 208 + 197 = 550$ . Ones:  $5 + 8 + 7 = 20$  (write 0, carry 2); Tens:  $4 + 0 + 9 + 2 = 15$  (write 5, carry 1). Hundreds:  $1 + 2 + 1 + 1 = 5$ .
- 14) **Choice D is correct.** **(3.MD.C.5)** Count the rows: 3 rows. Count the columns: 4 columns. Multiply:  $3 \times 4 = 12$  square units.
- 15) **Choice C is correct.** **(3.G.A.1)** A trapezoid is defined as a quadrilateral with exactly one pair of parallel sides.
- 16) **Choices A and E are correct.** **(3.MD.B.4)** Statement A is correct:  $\frac{1}{2}$  inch has 4 X's, the most. Statement B is wrong because the total is  $1 + 4 + 2 + 2 + 1 = 10$  days. Statement C is wrong because 1 inch has 2 X's, while 0 and 2 inches have only 1 X each. Statement D is wrong because 1 and  $1\frac{1}{2}$  inches each have 2 X's. Statement E is correct because the range is  $2 - 0 = 2$  inches.
- 17) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.3)**  $\frac{2}{4} = \frac{1}{2}$ .
- 18) **Choice D is correct.** **(3.OA.A.4)** Divide:  $28 \div 4 = 7$ . Check:  $7 \times 4 = 28$ .
- 19) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 7 tens and 0 ones. So  $7 \times 10 = 70$  beads. The tens place has 7; ones place has 0.
- 20) **Choice C is correct.** **(3.MD.C.7d)** First:  $5 \times 3 = 15$  sq units. Two others:  $2 \times 3 = 6$  each. Total:  $15 + 6 + 6 = 27$  sq units.
- 21) **Choice A is correct.** **(3.MD.C.6)** The grid shows 3 columns and 2 rows.  $3 \times 2 = 6$  unit squares.
- 22) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 9. Since  $9 \geq 5$ , round up: 899 rounds to 900.
- 23) **Choice C is correct.** **(3.MD.C.5a)** Area = 9 in  $\times$  2 in = 18 square inches = 18 unit squares.
- 24) **Choice A is correct.** **(3.MD.A.1)** When the minute hand points to 9, that means 45 minutes ( $9 \times 5 = 45$ ). Choice A shows 45 minutes. Distractor B confuses hand position with hour (reads the 9 as 9 o'clock instead of 45 minutes).
- 25) **Choice D is correct.** **(3.OA.A.2)**  $18 \div 6 = 3$ . The total crayons are divided equally among the friends.
- 26) **Choice B is correct.** **(3.OA.D.8)** Step 1: Remaining boxes:  $9 - 4 = 5$  boxes. Step 2: Crayons in remaining boxes:  $5 \times 10 = 50$  crayons. (Choice C is the answer to step 1 multiplied by 12; choice D is step 1 error times 10.)
- 27) **Choice B is correct.** **(3.MD.C.5b)** The pink square is still one of the unit squares. The rectangle has  $4 \times 3 = 12$  distinct unit squares.
- 28) **Choice B is correct.** **(3.MD.A.2)** 3 L = 3000 mL. Subtract:  $3000 - 1500 = 1500$  mL.
- 29) **Choice D is correct.** **(3.OA.A.3)** First multiply to find total buttons: 4 bags  $\times$  6 buttons per bag = 24 buttons. Then divide by buttons per bracelet:  $24 \div 8 = 3$  bracelets.



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## Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

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

**Jay Daie**

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Visit [testinar.com/math3](https://testinar.com/math3) for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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