

# 8 Arizona AASA GRADE 4



## PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Arizona AASA Grade 4 Math Practice Tests

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



Eight complete 30-question Grade 4 practice rounds for AASA, built around canyon trails, desert sunsets, and sharp observation, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Arizona Math Explorer!

Eight steady rounds on the Grand Canyon math route

This book gives you eight full Grade 4 practice tests for AASA. Each round uses canyon trails, desert sunsets, and sharp observation to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Arizona Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

# How to Use This Book

A ten-session routine for Arizona AASA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Grand Canyon math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Eight tests, 240 questions, and a full AASA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice  
& answers

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1) In the number 352,679, what is the value of the digit in the ten-thousands place?

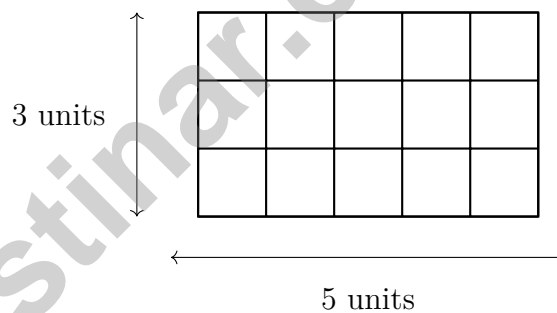
- A. 5  
 B. 5,000  
 C. 50,000  
 D. 500,000

2) What is  $\frac{11}{12} - \frac{6}{12}$ ?

- A.  $\frac{5}{24}$   
 B.  $\frac{17}{12}$   
 C.  $\frac{5}{12}$   
 D.  $\frac{6}{12}$

3) Look at this angle diagram. If point  $M$  is the vertex, what are the two rays called?

- A. Lines  
 B. Segments  
 C. Sides (or rays)  
 D. Vertices



4)

What is the perimeter of the rectangle shown?

- A. 16 units  
 B. 15 units  
 C. 8 units  
 D. 30 units



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5) Maria has 3 stickers. Sam has 2 times as many stickers as Maria. How many stickers does Sam have?

A. 3

C. 4

B. 5

D. 6

6) Round 6,005 to the nearest ten.

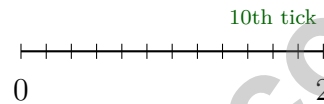
A. 6,010

C. 6,100

B. 6,000

D. 6,005

7) A number line from 0 to 2 has tick marks every  $\frac{1}{6}$ . What fraction is at the 10th tick mark?



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

C.  $\frac{10}{12}$

B.  $\frac{10}{6}$

D.  $\frac{5}{6}$

8) At a corner of a square, what is the angle measure?



9) Kai baked  $4\frac{2}{4}$  batches of cookies on Saturday and  $2\frac{1}{4}$  batches on Sunday. What is the total?

A.  $5\frac{3}{4}$  batches

C.  $6\frac{2}{4}$  batches

B.  $6\frac{1}{4}$  batches

D.  $6\frac{3}{4}$  batches



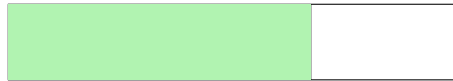
- 10) Diego needs to divide 1,625 into 5 equal groups. What is the result?
- A. 315                                       C. 335  
 B. 305                                       D. 325
- 11) Aisha has 5 pet fish. Kai has 4 times as many fish as Aisha. How many fish does Kai have?
- A. 9     C. 25  
 B. 15     D. 20
- 12) What is  $55,432 - 23,108$ ?
- A. 32,324                                       C. 31,324  
 B. 32,234                                       D. 32,334
- 13) What is  $\frac{6}{10} + \frac{20}{100}$ ?
- A.  $\frac{26}{100}$                                        C.  $\frac{26}{110}$   
 B.  $\frac{80}{100}$                                        D.  $\frac{62}{100}$
- 14) Select the TWO expressions that are equal to 0.6.
- A.  $\frac{6}{100}$   
 B.  $\frac{6}{10}$   
 C. 0.60  
 D.  $\frac{6}{1000}$   
 E. 0.06



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1) What fraction of the bar is shaded?

Fraction Bar



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

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

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

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

2) What is the measure of an angle drawn at  $75^\circ$ ?



3) Compare two multiples: Is  $6 \times \frac{1}{10}$  greater than, less than, or equal to  $\frac{6}{10}$ ?

A. Greater than

B. Less than

C. Equal to

D. Cannot compare

4) A teacher has 10 identical items to share equally among her class. If each student gets  $\frac{1}{10}$  of all the items, how many students are in the class?

A. 1 student

B. 5 students

C. 10 students

D. 20 students

5) Which fraction is in simplest form and equivalent to  $\frac{6}{8}$ ?

A.  $\frac{3}{4}$

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

C.  $\frac{4}{5}$

D.  $\frac{5}{6}$



6) Using place value, what digit in 16,372 must you look at to round to the nearest thousand?

- A. The ones place (2)                       C. The hundreds place (3)  
 B. The tens place (7)                       D. The thousands place (6)

7) Look at the base-ten model below. What number does it represent?



- A. 6,142                                       C. 1,462  
 B. 4,612                                       D. 4,162

8) What is  $\frac{7}{12} + \frac{2}{12}$ ?

- A.  $\frac{9}{24}$                                        C.  $\frac{14}{12}$   
 B.  $\frac{9}{12}$                                        D.  $\frac{5}{12}$

9) Starting at 12, the minute hand moves to 3. What angle has it swept?

- A.  $30^\circ$                                        C.  $90^\circ$   
 B.  $60^\circ$                                        D.  $120^\circ$

10) Which fraction is NOT equal to  $\frac{1}{2}$ ?

- A.  $\frac{3}{6}$                                        C.  $\frac{5}{10}$   
 B.  $\frac{4}{8}$                                        D.  $\frac{2}{5}$

11) Add:  $\frac{2}{10} + \frac{35}{100}$ . Express your answer as a fraction with denominator 100.



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1) Which option shows TWO different decompositions that both equal  $\frac{10}{12}$ ?

A.  $\frac{6}{12} + \frac{4}{12}$  and  $\frac{5}{12} + \frac{5}{12}$

B.  $\frac{7}{12} + \frac{3}{12}$  and  $\frac{8}{12} + \frac{3}{12}$

C.  $\frac{4}{12} + \frac{4}{12} + \frac{2}{12}$  and  $\frac{6}{12} + \frac{5}{12}$

D.  $\frac{9}{12} + \frac{2}{12}$  and  $\frac{3}{12} + \frac{6}{12}$

2) Nina has 4 apples. Her friend Tara has 6 times as many apples. How many apples does Tara have?

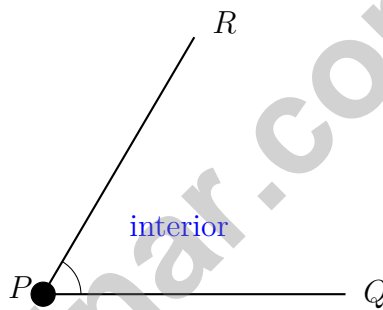
A. 10

B. 2

C. 20

D. 24

3)



Which part of the angle is labeled blue?

A. The vertex

B. The sides

C. The interior

D. The exterior

4) Find  $4,368 \div 8$ .



5) Write the number 12,405 in word form.

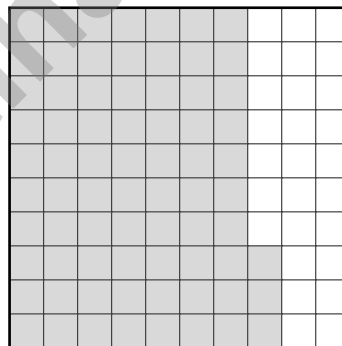
- A. Twelve thousand, four hundred fifty       C. One hundred twenty thousand, four hundred five
- B. Twelve thousand, forty-five                       D. Twelve thousand, four hundred five

6) Which list shows ALL the factors of 48?

- A. 1, 2, 4, 6, 8, 12, 24, 48                       C. 1, 2, 3, 4, 6, 8, 12, 24, 48
- B. 1, 2, 3, 4, 6, 8, 12, 16, 24, 48               D. 2, 3, 4, 6, 8, 12, 24, 48

7) How many degrees larger is  $145^\circ$  than  $55^\circ$ ?

8) Look at the grid below with hundredths shaded.



What decimal is shown?

- A. 0.62     C. 0.73
- B. 0.72     D. 0.82



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## Practice Test Answer Keys

**How to use this section with a Grade 4 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

- Choice C is correct.** (4.NBT.A.2) The ten-thousands place contains the digit 5. Its value:  $5 \times 10,000 = 50,000$  ✓
- Choice C is correct.** (4.NF.B.3) Subtract the numerators:  $11 - 6 = 5$ . Keep the same denominator:  $\frac{5}{12}$ .
- Choice C is correct.** (4.MD.C.5) The two rays forming an angle are called the sides of the angle.
- Choice A is correct.** (4.MD.A.3) The rectangle is 5 units long and 3 units wide. Perimeter =  $2(5) + 2(3) = 10 + 6 = 16$  units.
- Choice D is correct.** (4.OA.A.1) "2 times as many" is your signal to multiply. Sam has 2 groups of Maria's 3 stickers:  $2 \times 3 = 6$ . So Sam has 6 stickers.
- Choice A is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 5. Since  $5 \geq 5$ , we round UP! The tens digit goes from 0 to 1, giving us **6,010**. ✓
- Choice B is correct.** (4.NBT.A.1) Tick marks are every  $\frac{1}{6}$ . The 10th tick is at  $10 \times \frac{1}{6} = \frac{10}{6}$ .
- The correct answer is 90.** (4.G.A.1) The corner of a square is always a right angle, and a right angle is always  $90^\circ$ .
- Choice D is correct.** (4.NF.B.3) Add the wholes:  $4 + 2 = 6$ . Add the fractions:  $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ . The total is  **$6\frac{3}{4}$**  batches.
- Choice D is correct.** (4.NBT.B.5) Use long division:  $16 \div 5 = 3$  r1, bring down the 2 to get  $12 \div 5 = 2$  r2, bring down the 5 to get  $25 \div 5 = 5$ . The result is **325**.
- Choice D is correct.** (4.OA.A.2) "4 times as many" is a multiplication signal. Kai has 4 groups of Aisha's 5 fish:  $4 \times 5 = 20$  fish.
- Choice A is correct.** (4.NBT.B.4) Subtract by place value: no regrouping is needed. The answer is **32,324**.
- Choice B is correct.** (4.NF.C.5) First, convert  $\frac{6}{10}$  to hundredths:  $\frac{6}{10} = \frac{60}{100}$ . Then add:  $\frac{60}{100} + \frac{20}{100} = \frac{80}{100}$ .
- The correct answer is B, C.** (4.NF.C.5) Option B:  $0.6 = \frac{6}{10}$  (six tenths). Option C:  $0.6 = 0.60$  (trailing zeros don't matter). The other options use wrong denominators or different values.
- Choice D is correct.** (4.OA.B.4) Tiles grow by 2 each time: 2, 4, 6, 8, 10, 12, **14**. Figure 7 has **14** tiles.
- The correct answer is 2.** (4.G.A.2) A parallelogram is defined by having two pairs of opposite sides that are parallel to each other. The answer is **2**.
- Choice C is correct.** (4.NF.B.3) At the bake sale, cookies were sold over two time periods. Step 1: Add morning and afternoon sales:  $\frac{7}{12} + \frac{3}{12} = \frac{10}{12}$ . Step 2: Find what remains unsold:  $\frac{12}{12} - \frac{10}{12} = \frac{2}{12}$ .
- Choice A is correct.** (4.MD.C.5) Divide the degrees by 360 to get the fraction:  $\frac{60}{360} = \frac{1}{6}$  (simplifying by 60). Answer:  $\frac{1}{6}$ .
- Choice B is correct.** (4.MD.A.2) School starts at 9:00 a.m. Add 2 hours 15 minutes:  $9:00 + 2:15 = 11:15$  a.m. Morning lessons end at **11:15** a.m.
- Choice B is correct.** (4.MD.A.1) Since 1 kilogram = 1,000 grams, multiply:  $3 \times 1,000 = 3,000$  g. The answer is **3,000** g.
- Choice C is correct.** (4.NBT.A.1) Count the shaded (green) parts: there are 3 shaded parts. Count the equal parts: there are 4 total parts. So this is  $3 \times \frac{1}{4} = \frac{3}{4}$ .
- Choice B is correct.** (4.NF.B.3) When we add unit fractions with the same denominator, we keep the denominator and add the numerators.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$  has three 1's in the numerator, so it equals  $\frac{3}{4}$ . The other choices incorrectly change the denominator.
- Choice D is correct.** (4.NBT.A.1) A value of 30 means  $3 \times 10$ . The tens place is where digit  $\times 10$ . Answer: Tens. ✓
- Choice A is correct.** (4.NF.B.3) Diego used  $\frac{6}{10}$  on the hike and  $\frac{3}{10}$  at camp. Total water used:  $6 + 3 = 9$ , so  $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$  ✓.
- Choice A is correct.** (4.NF.A.1) Compare to  $\frac{1}{2}$ : Convert to tenths:  $\frac{3}{5} = \frac{6}{10}$  and  $\frac{1}{2} = \frac{5}{10}$ . Since  $6 > 5$ ,  $\frac{3}{5} > \frac{1}{2}$ .
- Choice B is correct.** (4.G.A.3) The letter X is like two lines crossing. Both diagonal directions (from top-left to bottom-right, and from top-right to bottom-left) create matching halves. The answer is letter **X**.
- Choice C is correct.** (4.NF.A.1) First simplify the first fraction:  $\frac{2}{4} = \frac{1}{2}$ . Now find the equivalent with denominator 10:  $\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$ .



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## Author's Note

### From a Friend Who Believes in You

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#### Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 8 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

#### What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

**One more thing:** on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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 Friend

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



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