

# 3

# Arizona

# AASA

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 Arizona AASA Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 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, Arizona Math Explorer!

Three steady rounds on the Grand Canyon math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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

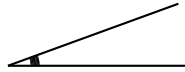
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1) What does a point represent in geometry?

- A. An exact location with no size or shape
- B. A small circle on a diagram
- C. The corner of a shape
- D. The space between two lines

2)



The tick marks are every  $2^\circ$ , and the angle reaches  $20^\circ$ . What is the angle measure?

- A.  $10^\circ$
- B.  $20^\circ$
- C.  $40^\circ$
- D.  $2^\circ$
- 3) Which number completes the equation?  $\underline{\quad} \times \frac{1}{5} = \frac{3}{5}$
- A. 1
- B. 2
- C. 3
- D. 5

4) A warehouse stores 22 boxes of supplies. Each box weighs 18 kilograms. What is the total weight?



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& answers

- 5) Look at this subtraction: 
$$\begin{array}{r} 7,050 \\ -3,128 \\ \hline \end{array}$$
 What must you do to subtract?
- A. No regrouping is needed in the ones place.
- B. No regrouping is needed.
- C. Add instead of subtract.
- D. Regroup across the zero in the tens place.
- 6) A container of juice contains 8 cups. Mina pours juice into 6 glasses equally. How many cups of juice are in each glass?
- A. 2 cups
- B.  $\frac{3}{4}$  cups
- C.  $1\frac{1}{3}$  cups
- D. 14 cups
- 7) Compare these three decimals on a number line: 0.2, 0.8, 0.5. Which is in the middle?
- A. 0.2
- B. 0.8
- C. 0.5
- D. They are all equal
- 8) Keisha ran  $\frac{5}{6}$  lap, Liam ran  $\frac{3}{4}$  lap, and Mila ran  $\frac{4}{5}$  lap. Who ran the shortest distance?

- 9) A school fundraiser collected \$17,890. Rounded to the nearest thousand dollars, about how much was collected?





1) Noah had  $\frac{6}{12}$  of a pizza. He ate  $\frac{2}{12}$ . How much pizza is left?

- A.  $\frac{8}{12}$   
 B.  $\frac{4}{12}$

- C.  $\frac{1}{12}$   
 D.  $\frac{12}{12}$

2) A pizza is cut into 6 equal slices. Max ate 2 slices. Another pizza was cut into 3 equal slices, and Cole ate 1 slice. If both pizzas started the same size, did Max and Cole eat equivalent amounts?

- A. Yes, both ate  $\frac{1}{3}$   
 B. Yes, both ate  $\frac{1}{2}$

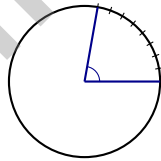
- C. No, Max ate more  
 D. No, Cole ate more

3) A line plot shows data with halves. At  $\frac{1}{2}$  there are 2 X marks, at 1 there are 4 X marks, and at  $\frac{3}{2}$  there is 1 X mark. How many X marks in total?

- A. 5  
 B. 6

- C. 7  
 D. 8

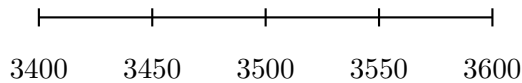
4)



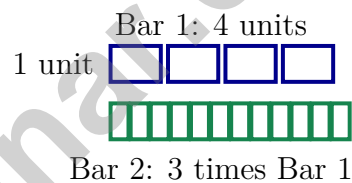
Look at the angle shown. It is marked from  $0^\circ$  to  $80^\circ$ . Write the measure of the angle.



- 5) Using the number line, which number just below 3,500 rounds to 3,500 when rounded to the nearest hundred?



- A. 3,449                       C. 3,500  
 B. 3,551                       D. 3,450
- 6) A recipe calls for  $\frac{1}{4}$  cup of sugar. If Miguel triples the recipe, how much sugar does he need?
- A.  $\frac{1}{12}$  cup                       C.  $\frac{3}{4}$  cup  
 B.  $\frac{1}{3}$  cup                         D.  $1\frac{1}{4}$  cups
- 7) Look at the bar model. Both bars show a total of how much?



- A. 4 units                         C. 12 units  
 B. 8 units                         D. 16 units
- 8) A fish tank requires 3 liters of water per day to stay clean. How many liters are needed for 5 days?
- A. 8 L                               C. 2 L  
 B. 15 L                             D. 3 L



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For more practice  
& answers

1) Jackson has  $3\frac{5}{6}$  cups of juice. He drinks  $2\frac{2}{6}$  cups. How much juice remains?

A.  $1\frac{3}{6}$

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

C.  $5\frac{7}{6}$

D.  $2\frac{3}{6}$

2) Compare:  $\frac{3}{8}$  and  $\frac{3}{10}$ .

A.  $\frac{3}{8} < \frac{3}{10}$

 B. Cannot compare

C.  $\frac{3}{8} = \frac{3}{10}$

D.  $\frac{3}{8} > \frac{3}{10}$

3) Which symbol makes this true?  $456,100 \square 456,099$

A.  $<$

 B. Cannot compare

C.  $=$

D.  $>$

4) Jackson hikes 4 miles. His dad hikes 9 times as many miles. How many miles does his dad hike?

A. 4

B. 5

C. 9

D. 36

5) How many copies of  $\frac{1}{10}$  are in  $\frac{9}{10}$ ?



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6) What is  $5\frac{3}{10} - 2\frac{7}{10}$ ?

A.  $2\frac{4}{10}$

B.  $2\frac{5}{10}$

C.  $2\frac{6}{10}$

D.  $3\frac{2}{10}$

7) Calculate  $4 \times \frac{2}{3}$  as a mixed number.

8) A class recorded toy block heights in fourths of an inch:  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{1}{4}$ . When plotted, what is the mode (most common measurement)?

A.  $\frac{1}{4}$  in

B.  $\frac{2}{4}$  in

C.  $\frac{3}{4}$  in

D. 1 in

9) A school has 156 students going on a field trip. Each bus holds 24 students. How many buses do they need to rent to fit all students?

A. 6 buses

B. 8 buses

C. 5 buses

D. 7 buses

10) A student says  $0.5 > 0.45$  because 5 is greater than 45. Is this reasoning correct?

A. Yes, the student is correct

B. No, you must compare place values, not digits

C. No,  $0.45 > 0.5$

D. The comparison cannot be made



## 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 A is correct.** **(4.G.A.1)** A point is simply a precise spot in space — like marking a location on a map with a pin. It has no length, width, or height; we just draw it as a tiny dot to show where it is.
- Choice B is correct.** **(4.MD.C.5)** The angle reaches  $20^\circ$  on the degree scale, so it is made of **20** one-degree angles.
- Choice C is correct.** **(4.NBT.A.1)** To find the missing number, think: How many copies of  $\frac{1}{5}$  do we need to make  $\frac{3}{5}$ ? We need 3 copies. So the equation is  $3 \times \frac{1}{5} = \frac{3}{5}$ .
- The correct answer is 396.** **(4.NBT.B.5)** Weight problem: 22 boxes with 18 kg each. Calculate:  $22 \times 18 = 22 \times (10 + 8) = 220 + 176 = \mathbf{396}$  kg.
- Choice D is correct.** **(4.NBT.B.4)** In the ones place:  $0 < 8$ , so regrouping is needed. The tens place is zero, so we must regroup from the hundreds place.
- Choice C is correct.** **(4.MD.A.2)** There are 8 cups of juice for 6 glasses. Divide:  $8 \div 6 = 1\frac{1}{3}$  cups. Each glass gets  $\mathbf{1\frac{1}{3}}$  cups.
- Choice C is correct.** **(4.NF.C.5)** On a number line from 0 to 1:  $0.2 < 0.5 < 0.8$ . The value 0.5 is halfway between 0 and 1, right in the middle!
- The correct answer is Liam.** **(4.NF.A.1)** Use denominator 60:  $\frac{3}{4} = \frac{45}{60}$ ,  $\frac{4}{5} = \frac{48}{60}$ ,  $\frac{5}{6} = \frac{50}{60}$ . Since  $45 < 48 < 50$ , Liam ran the shortest distance.
- The correct answer is 18,000.** **(4.NBT.A.3)** We're rounding to the nearest thousand dollars. Look at the hundreds digit:  $8 \geq 5$ , so round UP from \$17,000 to **\$18,000** collected. ✓
- Choice D is correct.** **(4.G.A.3)** A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is **3** lines of symmetry.
- Choice D is correct.** **(4.NF.C.5)** The number line marks tenths: 0.2, 0.4, 0.6, 0.8. The decimal 0.8 lands on the fourth mark, which is at position Q.
- Choice B is correct.** **(4.MD.C.6)** An acute angle opens less wide than a right angle—it measures less than  $90^\circ$ . At  $15^\circ$ , this is a very small acute angle. The other choices are all  $90^\circ$  or bigger, so they cannot be acute. The answer is **15** degrees.
- Choice A is correct.** **(4.NF.B.3)** Subtract the wholes:  $7 - 4 = 3$ . Subtract the fractions:  $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$ . The difference is  $\mathbf{3\frac{1}{3}}$ .
- Choice A is correct.** **(4.NF.B.3)** The picture shows the candy bar is divided into 8 equal parts with 5 shaded (what Maya ate). Subtract the shaded part from the whole bar:  $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$  of the candy bar is left.
- Choice B is correct.** **(4.MD.C.5)** Divide degrees by 360 to find the fraction:  $\frac{210}{360} = \frac{7}{12}$  (simplifying by 30). Answer:  $\frac{7}{12}$ .
- The correct answer is A, C.** **(4.NF.B.3)** Count the unit fractions: five  $\frac{1}{8}$ 's equal  $\frac{5}{8}$  (choice A). Choice C also correctly describes this as “five unit fractions of eighths.” Choice B reverses numerator and denominator. Choices D and E use wrong denominators.
- Choice A is correct.** **(4.NF.A.1)** Divide both numerator and denominator by 5:  $\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$ .
- Choice A is correct.** **(4.NBT.A.1)** A multiple of  $\frac{1}{5}$  means we count by fifths. We can write  $\frac{2}{5} = 2 \times \frac{1}{5}$ , so it “s a multiple. The others don’t fit that pattern.
- Choice B is correct.** **(4.NBT.A.1)** A toy car travels  $\frac{2}{10}$  meter in one roll. After 7 rolls, it travels  $7 \times \frac{2}{10} = \frac{14}{10}$  meters.
- Choice D is correct.** **(4.NBT.A.1)** Count each block type: 5 thousands, 0 hundreds, 3 tens, 7 ones. Sum:  $5,000 + 0 + 30 + 7 = \mathbf{5,037}$ . ✓
- Choice C is correct.** **(4.NF.C.5)** The tenths bar shows 2 tenths =  $\frac{20}{100}$ . The hundredths grid shows 15 hundredths. Adding:  $\frac{20}{100} + \frac{15}{100} = \frac{35}{100}$ .
- Choice A is correct.** **(4.G.A.2)** A scalene triangle has all three sides of different lengths, with no two sides equal to each other. The absence of tick marks on the sides confirms no sides are equal. The answer is **A**.
- Choice C is correct.** **(4.MD.C.7)** Each turn is an angle. Add the rotations together:  $110^\circ + 40^\circ = \mathbf{150^\circ}$ .



## Hi, Math Champion!

◇ You trained hard! 3 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!  
★

### Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

**Coach's tip:** the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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 Coach

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills 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 Building

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

## 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.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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