

4

Arizona AASA

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED



Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 Arizona AASA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Arizona Math Explorer!

Four steady rounds on the Grand Canyon math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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1) A child spins a bottle. It rotates $\frac{1}{9}$ of a full turn. How many degrees is this?

A. 30°

C. 40°

B. 35°

D. 45°

2) A sticker weighs $\frac{1}{5}$ ounce. Emma has 3 stickers. What is the total weight in ounces?

A. $\frac{1}{15}$ ounce

C. $\frac{3}{15}$ ounce

B. $\frac{3}{5}$ ounce

D. $\frac{5}{3}$ ounces

3) A farmer has 7 chickens. She has 5 times as many ducks. How many more ducks than chickens?

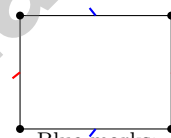
A. 12

C. 5

B. 35

D. 28

4) Look at the shape with tick marks. The tick marks show:



Blue marks:

top/bottom

Red marks: sides

A. Opposite sides are equal

C. Adjacent sides are equal

B. All sides are equal

D. No sides are equal

5) Find $3\frac{2}{4} + 1\frac{3}{4}$.



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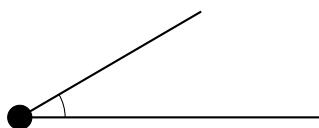
6) Which number sentence correctly shows decomposing a fraction into unit fractions?

- A. $\frac{6}{8} = \frac{1}{8} + \frac{5}{8}$
- B. $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
- C. $\frac{6}{8} = \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$
- D. $\frac{6}{8} = \frac{6}{16}$

7) Which equation shows $\frac{11}{12}$ as a sum of two fractions?

- A. $\frac{6}{12} + \frac{5}{12}$
- B. $\frac{7}{12} + \frac{3}{12}$
- C. $\frac{8}{12} + \frac{2}{12}$
- D. $\frac{9}{12} + \frac{1}{12}$

8)



Which statement is true about this angle?

- A. It is larger than a right angle
- B. It is smaller than a right angle
- C. It is equal to a right angle
- D. It is a straight angle

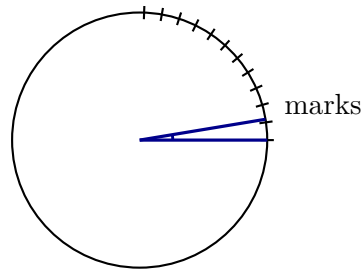
9) Diego cut a submarine sandwich into 8 equal pieces and ate 4 pieces. Maya cut an identical sandwich into 4 equal pieces and ate 2 pieces. Did they eat equivalent amounts?

- A. Yes, both ate $\frac{1}{2}$
- B. Yes, both ate $\frac{1}{4}$
- C. No, Diego ate more
- D. No, Maya ate more



A trail is divided into three equal sections. First hikers cover $\frac{4}{12}$ (red) and next hikers cover $\frac{4}{12}$ (gold). How much trail is left?

- A. $\frac{8}{12}$
- B. $\frac{4}{12}$
- C. $\frac{12}{12}$
- D. $\frac{2}{12}$



11)

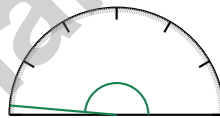
Diego's angle is small and sits just past the 8° tick mark. About how many one-degree angles is it?

- A. 8 one-degree angles C. 10 one-degree angles
 B. 9 one-degree angles D. 16 one-degree angles

12) Subtract: $7,104 - 2,356 = ?$

- A. 4,748 C. 5,748
 B. 4,758 D. 4,648

13)



What is the measure of this angle very close to a straight line?

- A. 180 degrees C. 5 degrees
 B. 175 degrees D. 170 degrees

14) How many unit fractions $\frac{1}{4}$ are needed to make $\frac{3}{4}$?

- A. 1 C. 3
 B. 2 D. 4



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1) Which of these is NOT equivalent to $\frac{1}{3}$?

A. $\frac{2}{6}$

B. $\frac{3}{9}$

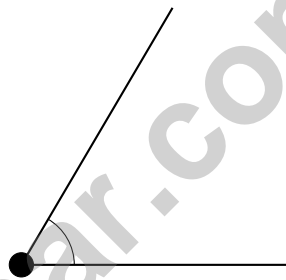
C. $\frac{2}{5}$

D. $\frac{4}{12}$

2) A repeating pattern is: circle, square, circle, square, circle, square. What is the 10th shape?

 A. Circle B. Rectangle C. Triangle D. Square

3)



Comparing this angle to a straight angle, this angle is:

 A. much smaller B. about the same size C. slightly smaller D. much larger

4) A child ate $1\frac{3}{4}$ cookies and his sister ate $\frac{2}{4}$ cookies. How many cookies did they eat together?

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

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

C. $1\frac{3}{4}$

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



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- 5) Hassan ate $\frac{2}{6}$ of a pizza and Iris ate $\frac{1}{3}$ of an identical pizza. Who ate more, or did they eat the same amount?

- 6) Which number is divisible by 3?

- A. 25 C. 48
 B. 34 D. 55

- 7) Look at the bar models. What is the relationship?

Bar A: 3 units



Bar B: 12 units

- A. Bar A is 2 times Bar B C. Bar A and Bar B are the same
 B. Bar B is 3 times Bar A D. Bar B is 4 times Bar A
- 8) Which number is less than 345,200?
- A. 345,300 C. 346,200
 B. 354,200 D. 345,100



1) What is $3\frac{4}{6} + 1\frac{2}{6}$?

A. $4\frac{5}{6}$

C. 5

B. $5\frac{1}{6}$

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

2) Which decomposition of $\frac{9}{10}$ is correct?

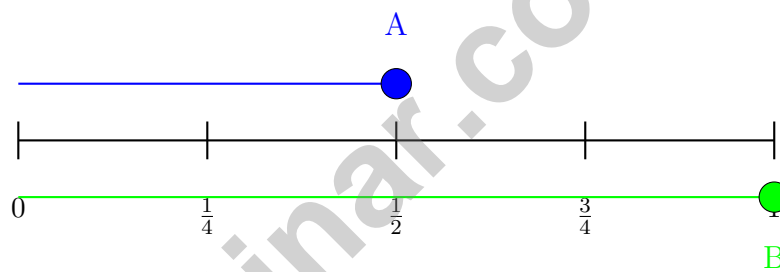
A. $\frac{4}{10} + \frac{5}{10}$

C. $\frac{2}{10} + \frac{8}{10}$

B. $\frac{3}{10} + \frac{5}{10}$

D. $\frac{5}{10} + \frac{5}{10}$

3) Look at the number line. It shows jumps from 0 to 1 marked at halves and fourths. Which point is equivalent to $\frac{1}{2}$?



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

C. Neither point is equivalent to $\frac{1}{2}$

B. Point B at 1

D. Both points are equivalent to $\frac{1}{2}$

4) Ray AB starts at point:

A. Any point between A and B

C. Point A

B. Point B

D. The middle of the line



5) Round 44,556 to the nearest ten thousand.

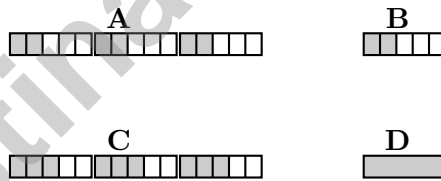
- A. 44,000 C. 45,000
 B. 50,000 D. 40,000

6) What is the perimeter of a rectangle that is 5 cm long and 3 cm wide?

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

7) Convert $\frac{5}{10}$ to a fraction with denominator 100.

8) Which picture shows $3 \times \frac{2}{5}$?



- A. Top-left picture C. Bottom-left picture
 B. Top-right picture D. Bottom-right picture

9) A student folds a piece of paper creating a crease. The angle on one side of the crease is 67° . If the total angle formed is 134° , what is the angle on the other side?

- A. 67° C. 201°
 B. 68° D. 134°



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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.

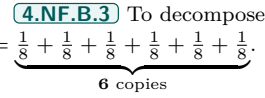
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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct. **(4.MD.C.5)** $\frac{1}{9} \times 360^\circ = 40^\circ$.
- Choice B is correct. **(4.NBT.A.1)** Emma has 3 stickers, and each weighs $\frac{1}{5}$ ounce. We multiply: $3 \times \frac{1}{5} = \frac{3}{5}$ ounce.
- Choice D is correct. **(4.OA.A.1)** Step 1: find the ducks: $7 \times 5 = 35$. Step 2: “how many *more*” is a subtraction: $35 - 7 = 28$. The farmer has **28** more ducks than chickens.
- Choice A is correct. **(4.G.A.2)** The blue tick marks appear on opposite sides (top and bottom), and the red tick marks appear on the opposite sides (left and right). This pattern indicates that opposite sides are equal in length. The answer is A.
- The correct answer is $5\frac{1}{4}$. **(4.NF.B.3)** Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$. Combine: $4 + 1\frac{1}{4} = 5\frac{1}{4}$.
- Choice B is correct. **(4.NF.B.3)** To decompose means to break apart. Breaking $\frac{6}{8}$ into unit fractions means showing it as a sum of $\frac{1}{8}$'s: $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.


- Choice A is correct. **(4.NF.B.3)** To check a decomposition, add the numerators and keep the same denominator. $\frac{6}{12} + \frac{5}{12} = \frac{6+5}{12} = \frac{11}{12} \checkmark$. *Note:* this is one of several valid ways to decompose $\frac{11}{12}$ —you could also use $\frac{4}{12} + \frac{7}{12}$ or $\frac{1}{12} + \frac{10}{12}$, etc.
- Choice B is correct. **(4.MD.C.5)** This angle is acute because it has a small opening, smaller than a right angle (90 degrees).
- Choice A is correct. **(4.NF.A.1)** Diego ate $\frac{4}{8}$ —simplify: $\frac{4}{8} = \frac{1}{2}$. Maya ate $\frac{2}{4}$ —simplify: $\frac{2}{4} = \frac{1}{2}$. They both ate half!
- Choice B is correct. **(4.NF.B.3)** A hiking trail is shown with sections covered. Step 1: Add the distances the hikers covered: $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$. Step 2: Find what's left: $\frac{12}{12} - \frac{8}{12} = \frac{4}{12}$.
- Choice B is correct. **(4.MD.C.5)** The angle goes slightly beyond the 8° tick mark, so approximately **9** one-degree angles is the best estimate.
- Choice A is correct. **(4.NBT.B.4)** In the ones place, $4 < 6$, so we must regroup. The tens place is zero, so regroup from hundreds. Then subtract carefully. The answer is **4,748**.
- Choice B is correct. **(4.MD.C.6)** The ray points to the 175° mark, which is just 5° short of a straight angle (180°). This is a very wide obtuse angle. The answer is **175** degrees.
- Choice C is correct. **(4.NBT.A.1)** To make $\frac{3}{4}$, we need 3 copies of $\frac{1}{4}$. So we need **3** unit fractions.
- The correct answer is A, E. **(4.NF.C.5)** Trailing zeros don't matter. A is true: $0.5 = 0.50$ (both 5 tenths). E is true: $0.3 = 0.30$ (both 3 tenths). B is false: $0.5 \neq 0.05$. C is false: $0.50 \neq 0.05$. D is false: $0.5 \neq 0.51$.
- Choice D is correct. **(4.NBT.A.2)** Thousands: 5, ones: 234. Combined: $5,000 + 234 = 5,234 \checkmark$
- Choice A is correct. **(4.MD.C.7)** Three rays meet at a point. The first two rays form an angle by adding: $27^\circ + 43^\circ = 70^\circ$.
- Choice B is correct. **(4.G.A.3)** The letter W has a series of peaks and valleys. A vertical line down the middle divides it so each side looks identical. The answer is **1** line of symmetry.
- Choice B is correct. **(4.NBT.A.1)** Ming has 5 bags, each with $\frac{3}{10}$ pound. Multiply: $5 \times \frac{3}{10} = \frac{5 \times 3}{10} = \frac{15}{10} = 1\frac{1}{2}$ pounds. The answer is $1\frac{1}{2}$ pounds.
- Choice C is correct. **(4.MD.B.4)** Count all the X marks across the entire line plot: $1 + 2 + 3 + 1 + 1 = 8$ data points in total.
- Choice D is correct. **(4.OA.A.3)** Three steps! Step 1: books from the boxes: $5 \times 20 = 100$. Step 2: add the loose books: $100 + 15 = 115$. Step 3: subtract the shelved ones: $115 - 45 = 70$ books left.
- The correct answer is 12. **(4.G.A.1)** Since T is between R and S , add the pieces: $RS = RT + TS = 5 + 7 = 12$.
- Choice C is correct. **(4.NF.A.1)** On the number line, $\frac{1}{2}$ is at position 6 and $\frac{3}{4}$ is at position 9. Since $6 < 9$, we have $\frac{1}{2} < \frac{3}{4}$.
- Choice A is correct. **(4.NF.C.5)** The number line counts by tenths: 0.2 is the very first mark to the right of 0, so it's at position A.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 4 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 4 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY, SUCCEED TOMORROW!

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

With 4 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.



Track Progress

Measure growth across multiple practice tests.



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
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
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