

7

Arizona

AASA

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

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



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Arizona AASA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Grand Canyon math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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.

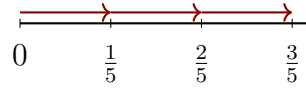


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& answers

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- 1) Which number sentence matches the number line showing three equal hops from 0 to $\frac{3}{5}$?



- A. $3 \times \frac{1}{6} = \frac{3}{6}$
 C. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$
 B. $3 \times \frac{1}{5} = \frac{3}{5}$
 D. $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$

- 2) Write $\frac{8}{5}$ as a mixed number.

- 3) What is the main characteristic of a line in geometry?

- A. It has exactly two endpoints
 C. It is always horizontal
 B. It continues forever in both directions
 D. It is shorter than a line segment

- 4) Which is equivalent to $\frac{9}{10}$?

- A. $\frac{9}{100}$
 C. $\frac{90}{100}$
 B. $\frac{19}{100}$
 D. $\frac{99}{100}$

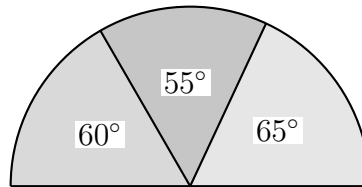


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5) Round 29,999 to the nearest thousand.

- A. 29,000 C. 29,900
 B. 25,000 D. 30,000

6) Look at the pie chart diagram. Three slices have angles of 65° , 55° , and 60° .

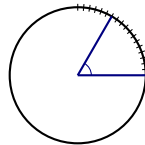


What is the combined angle measure of these three slices?

- A. 120° C. 145°
 B. 180° D. 200°

7) The sides of an angle are:

- A. segments C. rays
 B. lines D. circles



8)

This diagram is marked from 0° to 60° . How many one-degree angles does the angle contain?

- A. 60 one-degree angles C. 59 one-degree angles
 B. 61 one-degree angles D. 30 one-degree angles



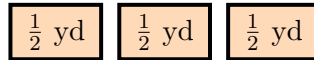
9) Mia measured fish lengths in halves of an inch: $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, 1, $\frac{3}{2}$, 1. When plotted, which length has the most X marks?

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

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

B. 1 in

D. 2 in



10) 3 strips, each $\frac{1}{2}$ yard

This shows 3 ribbon strips. Each strip is $\frac{1}{2}$ yard. What is the total length?

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

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

B. $\frac{3}{2}$ yards (or $1\frac{1}{2}$ yards)

D. 3 yards

11) In the number 6,217, which digit is in the tens place?

A. 6

C. 1

B. 2

D. 7

12) Rosa bought 7 pencils. Ahmed bought 5 times as many pencils as Rosa. How many pencils did Ahmed buy?

A. 12

C. 42

B. 30

D. 35



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- 1) Is 36 a multiple of 9?
- A. Only if divisible by 4 C. Cannot tell
 B. No D. Yes
- 2) Which shape can be described as having four equal sides, two pairs of parallel sides, and four right angles?
- A. Trapezoid C. Square
 B. Rhombus D. Rectangle
- 3) Mia bakes 8 cookies. Max bakes 2 times as many cookies as Mia. How many cookies does Max bake?
- A. 6 C. 10
 B. 8 D. 16
- 4) A rope is 48 inches long. If it is cut into 6 equal pieces, how long is each piece?
- A. 6 inches C. 42 inches
 B. 8 inches D. 54 inches
- 5) Which subtraction requires regrouping across a zero?
- A. $5,234 - 2,102$ C. $4,567 - 1,123$
 B. $6,007 - 3,256$ D. $8,432 - 5,321$



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& answers

6) Which number comes next in the pattern? 2, 6, 10, 14, 18, ___

A. 20

C. 24

B. 26

D. 22

7) If you have 8 copies of $\frac{1}{12}$, what fraction do you have?

A. $\frac{8}{12}$

C. $\frac{12}{8}$

B. $\frac{1}{96}$

D. $\frac{1}{8}$

8) A baker had $3\frac{3}{5}$ cups of sugar. She used $2\frac{1}{5}$ cups for a cake. How much sugar is left?

A. $1\frac{2}{5}$

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

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

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

9)



What is the best estimate of the angle shown as Angle X?

A. About 60 degrees

C. About 90 degrees

B. About 75 degrees

D. About 120 degrees

10) Solve: $\frac{4}{6} + \frac{1}{6} = ?$

A. $\frac{5}{12}$

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

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

D. $\frac{6}{6}$ or 1



1) Sam has 832 trading cards. He wants to organize them into 8 albums with the same number of cards per album. How many cards go in each album?

A. 100

C. 109

B. 102

D. 104

2) Noah's plant height measurements (in halves of an inch) are: $\frac{1}{2}$, 1, $\frac{1}{2}$, $\frac{3}{2}$, 1, 1, $\frac{3}{2}$. On a line plot, how many X marks appear at 1 inch?

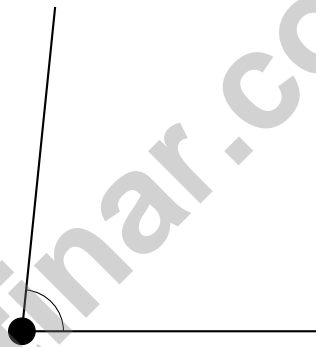
A. 1

C. 3

B. 2

D. 4

3)



This angle measures 84 degrees. Which statement is true?

A. It is less than a right angle

C. It is more than a right angle

B. It is exactly a right angle

D. It is a straight angle

4) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

A. 64

C. 256

B. 512

D. 128



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 B is correct.** (4.NBT.A.1) The number line shows three equal jumps of $\frac{1}{5}$ each, landing at $\frac{3}{5}$. This matches $3 \times \frac{1}{5} = \frac{3}{5}$.
- The correct answer is $1\frac{3}{5}$.** (4.NF.B.3) One whole is $\frac{5}{5}$, leaving $8 - 5 = 3$ more fifths. So $\frac{8}{5} = 1\frac{3}{5}$ ✓.
- Choice B is correct.** (4.G.A.1) A line has no beginning and no end — it just keeps going and going in both directions forever, like infinity.
- Choice C is correct.** (4.NF.C.5) Multiply both the numerator and denominator by 10 to convert: $\frac{9}{10} = \frac{90}{100}$.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: $9 \geq 5$, so round UP! But 9 becomes 10—a rollover! So 29,999 → **30,000**. ✓
- Choice B is correct.** (4.MD.C.7) The pie chart shows three slices. Add their angle measures: $65^\circ + 55^\circ + 60^\circ = 180^\circ$.
- Choice C is correct.** (4.MD.C.5) The two rays forming an angle are called the sides (or rays) of the angle.
- Choice A is correct.** (4.MD.C.5) The diagram shows the angle from 0° to 60° , giving us **60** one-degree angles.
- Choice A is correct.** (4.MD.B.4) Count each length: $\frac{1}{2}$ in appears 3 times (the most!), 1 in appears 2 times, and $\frac{3}{2}$ in appears 1 time. So $\frac{1}{2}$ in has the most X marks.
- Choice B is correct.** (4.NBT.A.1) We have 3 ribbon strips that are each $\frac{1}{2}$ yard long. We multiply: $3 \times \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$ yards total.
- Choice C is correct.** (4.NBT.A.1) In 6,217, counting from the right: ones is 7, tens is 1, hundreds is 2, thousands is 6. The tens place contains **1**. ✓
- Choice D is correct.** (4.OA.A.2) “5 times as many” is a multiplication signal. Ahmed bought 5 groups of Rosa’s 7 pencils: $5 \times 7 = 35$ pencils.
- Choice A is correct.** (4.NF.C.5) Roughly four columns (out of 10) are shaded. That’s about 40 out of 100 squares: $\frac{40}{100} = 0.40 = 0.4$.
- Choice A is correct.** (4.NF.B.3) When subtracting with like denominators, just subtract the numerators: $8 - 5 = 3$. Answer: $\frac{3}{10}$.
- The correct answer is A, C.** (4.NF.B.3) Let’s check each choice. Choice A: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$ (correct!). Choice C: “Four unit fractions” also describes this sum (correct!). Choices B, D, E: Wrong denominators or wrong totals.
- Choice D is correct.** (4.NBT.B.5) Think: $72 \div 8 = 9$, bring down the 8 to get $8 \div 8 = 1$. So each box holds **91** stickers.
- The correct answer is 8,000.** (4.NBT.A.2) The digit 8 occupies the thousands place. Its value: $8 \times 1,000 = 8,000$ ✓
- Choice D is correct.** (4.NBT.B.5) Distribute and add: $26 \times (10 + 2) = 260 + 52 = 312$ tiles.
- Choice C is correct.** (4.NF.A.1) To compare, find a common denominator: $\frac{2}{3} = \frac{4}{6}$ and $\frac{1}{2} = \frac{3}{6}$. Since $4 > 3$, we have $\frac{2}{3} > \frac{1}{2}$.
- Choice B is correct.** (4.MD.C.5) The angle spans from 270° to 300° , measuring 30° .
- Choice D is correct.** (4.OA.B.4) Test the small primes: 23 is odd; digit sum $2 + 3 = 5$ (not $\div 3$); doesn’t end in 0 or 5; $7 \times 3 = 21$, $7 \times 4 = 28$, no 7. So 23 has only factors 1 and itself—**prime**.
- Choice C is correct.** (4.G.A.2) An obtuse triangle has exactly one angle greater than 90 degrees, called an obtuse angle. The other two angles must be acute. The answer is **C**.
- Choice C is correct.** (4.MD.A.3) From the diagram, length is 7 cm and width is 3 cm. Area = $7 \times 3 = 21$ sq cm.
- Choice B is correct.** (4.NBT.A.1) Each bottle holds $\frac{3}{8}$ liter, and there are 4 bottles. Multiply: $4 \times \frac{3}{8} = \frac{4 \times 3}{8} = \frac{12}{8} = 1\frac{1}{2}$ liters. The answer is **1** $\frac{1}{2}$ liters.
- Choice D is correct.** (4.MD.C.6) The ray points to the 140° mark. At this measure, the angle is wider than a right angle but not yet flat, so it’s obtuse. The answer is **140** degrees.
- Choice D is correct.** (4.OA.A.1) “5 times as many” means we multiply. Leo’s sister reads 5 groups of 2 books, so $5 \times 2 = 10$ books.
- Choice C is correct.** (4.G.A.3) The letter A looks the same on both sides of a vertical line running down its middle. Fold it along that line and both sides match perfectly! The answer is letter **A**.



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& answers

Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ 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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

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



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Mixed Question Types



Answer Key Included