

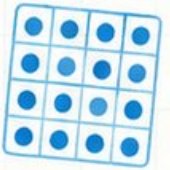
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



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

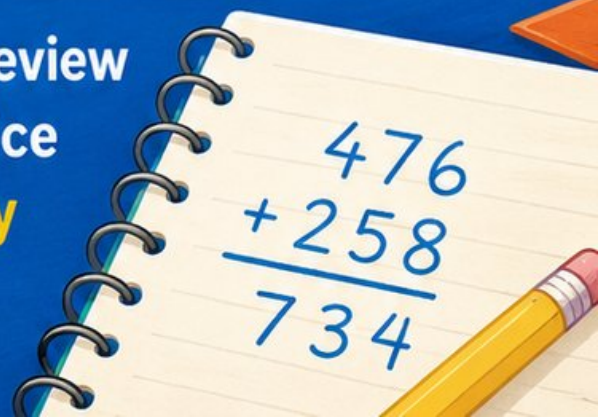


Alaska AK STAR GRADE 4 MATH



PRACTICE TESTS

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



10 Alaska AK STAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 4 practice rounds for AK STAR, built around glacier paths, northern lights, and careful tracker thinking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Alaska Math Explorer!

Ten steady rounds on the Last Frontier math route

This book gives you ten full Grade 4 practice tests for AK STAR. Each round uses glacier paths, northern lights, and careful tracker thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Alaska 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 Alaska AK STAR 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 Last Frontier 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?

Ten tests, 300 questions, and a full AK STAR 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Alaska book.
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) Look at the pattern: 4, 8, 12, 16, 20, ... What is the 12th term?

2) In the number 7,777, the digit 7 in the thousands place is how many times the value of the digit 7 in the ones place?

- A. 10
 B. 100

- C. 1,000
 D. 10,000

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

- A. 8 cm
 B. 15 cm

- C. 16 cm
 D. 30 cm

4) An angle measures 75° . This angle must be:

- A. Obtuse
 B. A straight angle

- C. Acute
 D. A right angle

5) If an angle turns through 45 one-degree angles, what is the measure of the angle?

- A. 4.5°
 B. 45°

- C. 90°
 D. 450°



- 6) A scale diagram shows weights. A bag of sugar weighs 3 kg, and a bag of salt weighs 2 kg. If you stack 5 bags of sugar and 3 bags of salt on a scale, what is the total weight?
- A. 9 kg C. 21 kg
 B. 15 kg D. 30 kg
- 7) What is $4 \times \frac{2}{5}$?
- A. $\frac{4}{5}$ C. $\frac{8}{20}$
 B. $\frac{6}{5}$ D. $\frac{8}{5}$
- 8) Ava wants to convert 5 kilometers to meters. What is the correct answer?
- A. 500 C. 50,000
 B. 5,000 D. 500,000
- 9) Which is true?
- A. $\frac{4}{10} > \frac{8}{10}$ C. $\frac{4}{10} < \frac{8}{10}$
 B. $\frac{4}{10} = \frac{8}{10}$ D. Cannot compare
- 10) A book club buys 9 bundles of books. Each bundle has 15 books. If they distribute all books to 5 libraries equally, how many books does each library receive?
- A. 24 books C. 30 books
 B. 25 books D. 27 books
- 11) If you rotate a shape by 45° , what fraction of a full turn is this?
- A. $\frac{1}{8}$ C. $\frac{1}{4}$
 B. $\frac{1}{6}$ D. $\frac{1}{3}$



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12) Find 32×19 .

13) At lunch, each child gets $\frac{1}{2}$ sandwich. If there are 8 children, how many sandwiches are needed?

- A. $\frac{1}{16}$ sandwich
 B. 4 sandwiches
 C. $\frac{7}{2}$ sandwiches (or $3\frac{1}{2}$ sandwiches)
 D. 8 sandwiches

14) What is $34,567 + 12,321$?

- A. 46,888
 B. 46,788
 C. 47,888
 D. 46,978

15) Look at the bar model below. How many times as many is the longer bar compared to the shorter bar?



- A. 3 times
 B. 2 times
 C. 10 times
 D. 5 times



1) Which equation does this bar model show?



A. $2 \times \frac{2}{3}$

B. $2 \times \frac{1}{4}$

C. $4 \times \frac{1}{2}$

D. $2 \times \frac{1}{2}$

2) A piece of string weighs $\frac{3}{5}$ ounce. What is the weight of 4 pieces?

A. $\frac{3}{20}$ ounce

B. $\frac{12}{5}$ ounces

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

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

3) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.

A. 4,600

B. 4,620

C. 4,700

D. 5,000

4) A rectangular garden has an area of 48 square feet. The length is 8 feet. What is the width?

A. 5 ft

B. 6 ft

C. 7 ft

D. 8 ft

5) A non-square rhombus has how many lines of symmetry?

A. 0

B. 1

C. 2

D. 4



1) A book has $4\frac{2}{6}$ chapters in Part 1 and $2\frac{3}{6}$ chapters in Part 2. How many chapters total are in both parts?

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

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

B. $7\frac{1}{6}$

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

2) A rectangular poster is 16 inches long and 10 inches wide. What is the area of the poster?

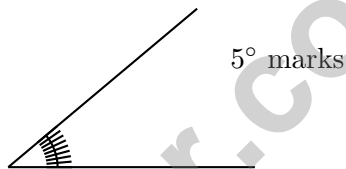
A. 26 sq in

C. 160 sq in

B. 52 sq in

D. 180 sq in

3)



This angle is marked from 0° to 40° . What is the measure?

A. 40°

C. 41°

B. 39°

D. 8 one-degree angles

4) What is the sum of the following unit fractions: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$?

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

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

B. $\frac{4}{16}$

D. $\frac{1}{16}$



5) What is $9,876 - 5,432$?

A. 4,344

C. 5,444

B. 4,434

D. 4,444

6) Three hops of $\frac{1}{4}$ land at what fraction?

7) A bead weighs $\frac{1}{10}$ gram. How much do 9 beads weigh?

A. $\frac{1}{90}$ gram

C. $\frac{10}{9}$ grams

B. $\frac{9}{10}$ grams

D. $\frac{9}{90}$ gram

8) A letter has exactly one line of symmetry. How many lines of symmetry does it have?

9) Which number is a factor of 16?

A. 3

C. 5

B. 6

D. 4



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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

- The correct answer is 48.** (4.NBT.1) The n th multiple of 4 is just $4 \times n$. So the 12th term is $4 \times 12 = 48$. *Quick check by skip-counting:* 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48—the 12th number is indeed 48. ✓
- Choice C is correct.** (4.NBT.1) The 7 in the thousands place is worth 7,000. The 7 in the ones place is worth 7. Since $7,000 \div 7 = 1,000$, the answer is **1,000** times. ✓
- Choice C is correct.** (4.MD.3) Perimeter is the distance around the rectangle: $P = 2(5) + 2(3) = 10 + 6 = 16$ cm.
- Choice C is correct.** (4.G.1) Any angle smaller than 90° is acute. Since 75° is less than 90° , this angle is definitely acute.
- Choice B is correct.** (4.MD.7) If an angle turns through n one-degree angles, it measures n degrees, so 45 one-degree angles equal 45° .
- Choice C is correct.** (4.MD.2) Step 1: Sugar weight: $5 \times 3 = 15$ kg. Step 2: Salt weight: $3 \times 2 = 6$ kg. Step 3: Total: $15 + 6 = 21$ kg. The total weight is **21** kg.
- Choice D is correct.** (4.NF.4) We have 4 copies of $\frac{2}{5}$. Multiply the whole number by the numerator: $4 \times \frac{2}{5} = \frac{4 \times 2}{5} = \frac{8}{5}$. The answer is $\frac{8}{5}$.
- Choice B is correct.** (4.MD.1) Since 1 kilometer = 1,000 meters, multiply: $5 \times 1,000 = 5,000$ m. The answer is **5,000** m.
- Choice C is correct.** (4.NF.1) Same denominator, so compare numerators: $4 < 8$ means $\frac{4}{10} < \frac{8}{10}$.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: total books from all bundles: $9 \times 15 = 135$ books. Step 2: divide equally among 5 libraries: $135 \div 5 = 27$ books each.
- Choice A is correct.** (4.MD.7) Divide the degrees by 360: $\frac{45}{360} = \frac{1}{8}$ (simplifying by 45). Answer: $\frac{1}{8}$.
- The correct answer is 608.** (4.NBT.5) Use a clever strategy: $32 \times 19 = 32 \times (20 - 1) = 640 - 32 = 608$.
- Choice B is correct.** (4.NF.4) Eight children each get $\frac{1}{2}$ sandwich. We multiply: $8 \times \frac{1}{2} = \frac{8}{2} = 4$ sandwiches are needed.
- Choice A is correct.** (4.NBT.4) Add by place value from right to left: ones $7 + 1 = 8$, tens $6 + 2 = 8$, hundreds $5 + 3 = 8$, thousands $4 + 2 = 6$, ten-thousands $3 + 1 = 4$. The sum is **46,888**.
- Choice D is correct.** (4.OA.1) To find “how many times,” divide the longer length by the shorter: $10 \div 2 = 5$. So the longer bar is 5 times as long as the shorter bar.
- The correct answer is A, C.** (4.G.2) For statements about right triangles: Statement A is correct because a right triangle has exactly one angle measuring 90 degrees. Statement C is also correct because besides the 90-degree angle, the other two angles must be acute (less than 90 degrees). Statement B is false (right triangles do not have all angles less than 90). Statement D is false (right triangles have one 90-degree angle, not angles greater than 90). Statement E is false (triangles have three angles total, but only one is 90 degrees in a right triangle). The answer is A and C.
- Choice A is correct.** (4.NF.3) Look at the bar: 5 equal parts total, and 2 are shaded. So **2** unit fractions of $\frac{1}{5}$ are shaded.
- Choice D is correct.** (4.G.3) The letter Z slants in one direction only. If you fold it any way—up and down, left and right, or diagonally—the halves don’t match. The answer is letter **Z**.
- Choice B is correct.** (4.MD.7) The sides of an angle are rays that start at the vertex and extend outward.
- Choice B is correct.** (4.MD.9) The diagram shows the angle divided into two equal parts by a ray. Add them: $42^\circ + 42^\circ = 84^\circ$.
- Choice C is correct.** (4.MD.5) First, count all X marks: $2 + 3 + 4 = 9$. Remove the 4 marks at $\frac{6}{8}$ inch: $9 - 4 = 5$ marks remain.
- Choice B is correct.** (4.NF.3) Subtract the wholes: $2 - 1 = 1$. Subtract the fractions: $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$. The difference is $1\frac{2}{4}$.
- The correct answer is 2.** (4.NBT.1) Find every pair that multiplies to 35: 1×35 and 5×7 . (No other small numbers divide 35 evenly.) So there are **2** factor pairs.
- Choice B is correct.** (4.MD.8) The vertex is the point where the two rays of an angle meet. This point must be placed at the center point (the small dot or mark) of your protractor so that all measurements are accurate. The answer is the center point.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 10 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

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Test Preparation

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

WHAT STUDENTS WILL GAIN:



Stronger Concepts

Reinforce key Grade 4 math skills and build a solid foundation.



Better Problem Solving

Develop critical thinking and solve problems with confidence.



Test Confidence

Familiarize with test formats and reduce exam stress.



Track Progress

Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

TOPICS COVERED:

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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Builds Confidence
Through Practice



Strengthens Critical Thinking
& Problem-Solving



Prepares for Tests
& Future Success