

7

Alaska

AK STAR

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 Alaska AK STAR Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Last Frontier math route

This book gives you seven 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?

Seven tests, 210 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 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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For more practice
& answers

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1) A carton of milk contains 2 pints. How many fluid ounces is this?

A. 16

C. 64

B. 32

D. 128

2) What decimal has 3 tenths and 7 hundredths?

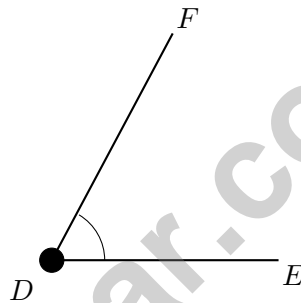
A. 0.73

C. 3.7

B. 0.37

D. 0.307

3)



Which name correctly identifies the angle with vertex at D ?

A. $\angle DEF$

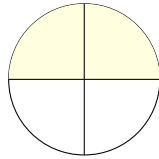
C. $\angle EFD$

B. $\angle FED$

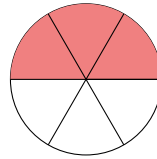
D. $\angle EDF$



- 4) Two circles are the same size. Circle 1 shows $\frac{2}{4}$ shaded. Circle 2 shows $\frac{3}{6}$ shaded. Which statement is true?



Circle 1: $\frac{2}{4}$



Circle 2: $\frac{3}{6}$

- A. Circle 1 is more shaded
 B. Circle 2 is more shaded
 C. Both circles are equally shaded
 D. Cannot compare circles of different sizes
- 5) How many degrees greater than 90° is 120° ?

- 6) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?
- A. 17
 B. 30
 C. 56
 D. 42
- 7) 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



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1) A bottle holds $\frac{3}{8}$ liter. How much do 4 bottles hold altogether?

- A. $\frac{3}{32}$ liter
- B. $\frac{12}{8}$ liters or $1\frac{1}{2}$ liters
- C. $\frac{7}{8}$ liter
- D. $\frac{4}{8}$ liter

2) What is $7 \times \frac{1}{3}$ as a fraction?

3) Which is the smallest fraction?

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

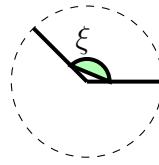
4) Complete the number sentence: $\frac{3}{5} = \frac{?}{15}$

5) How many 45° angles fit into a full circle?

- A. 4
- B. 6
- C. 8
- D. 12



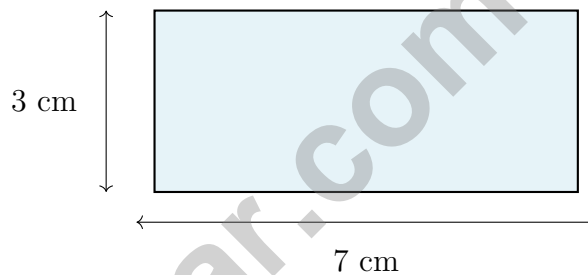
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1)

The shaded angle ξ is measured from the rightward ray to the upper-left ray. What is its measure?

- A. 90°
 C. 135°
 B. 120°
 D. 180°

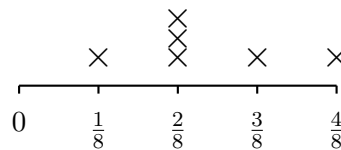


2)

What is the area of the rectangle shown above?

- A. 10 sq cm
 C. 21 sq cm
 B. 20 sq cm
 D. 28 sq cm

3) Look at the line plot of plant growth measurements (in inches). How many X marks are above $\frac{2}{8}$ inch?



- A. 1
 C. 3
 B. 2
 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

- Choice B is correct.** **(4.MD.1)** Since 1 pint = 16 fluid ounces, multiply: $2 \times 16 = 32$ fl oz. The answer is **32** fl oz.
- Choice B is correct.** **(4.NF.5)** 3 tenths = 0.3 and 7 hundredths = 0.07. Add them: $0.3 + 0.07 = 0.37$.
- Choice D is correct.** **(4.MD.7)** $\angle EDF$ correctly names the angle because the vertex, D , is the middle letter. The middle letter always tells us the vertex.
- Choice C is correct.** **(4.NF.1)** Both circles show exactly half shaded: $\frac{2}{4} = \frac{1}{2}$ and $\frac{3}{6} = \frac{1}{2}$. Equally shaded!
- The correct answer is 30.** **(4.G.1)** Find the difference: $120 - 90 = 30$.
- Choice D is correct.** **(4.OA.2)** “3 times as many” is a multiplication signal: $3 \times 14 = 42$ hamsters.
- Choice A is correct.** **(4.NF.1)** Max ate $\frac{2}{6}$ of his pizza. Cole ate $\frac{1}{3}$ of his pizza. Simplify: $\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$. They ate the same amount!
- Choice C is correct.** **(4.MD.5)** Count the measurements of 1 inch (which is $\frac{2}{2}$ inch). They appear **3** times in our data.
- Choice A is correct.** **(4.NBT.4)** Add using the standard algorithm: ones $7 + 5 = 12$ (write 2, carry 1), tens $6 + 4 + 1 = 11$ (write 1, carry 1), hundreds $5 + 3 + 1 = 9$, thousands $4 + 2 = 6$. The sum is **6,912**.
- Choice A is correct.** **(4.MD.7)** The sector is marked with 90 one-degree angle tick marks, so its measure is **90°**.
- Choice C is correct.** **(4.NF.5)** To convert $\frac{4}{10}$ to hundredths, multiply both the numerator and denominator by 10: $\frac{4}{10} = \frac{40}{100}$.
- Choice A is correct.** **(4.MD.8)** The ray lines up exactly with the 80° mark. Since 80° is between the 75° and 85° range and less than 90° , it's acute. The answer is **80** degrees.
- Choice A is correct.** **(4.MD.3)** Pizza box area = $14 \times 14 = 196$ sq in.
- Choice B is correct.** **(4.NF.3)** The container starts with water shown in the picture. When some water is removed, subtract: $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ of the container remains filled.
- Choice C is correct.** **(4.NF.3)** A difference of 0 means the fractions are identical. A: $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$ (not 0). B: $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$ (not 0). C: $\frac{3}{5} - \frac{3}{5} = 0$ ✓. D: $\frac{5}{12} - \frac{7}{12} =$ negative (not 0).
- Choice C is correct.** **(4.NF.3)** The top bar is completely full (1 whole). The bottom bar is filled $\frac{3}{4}$ of the way. Together: $1\frac{3}{4}$ ✓.
- The correct answer is A, D.** **(4.NBT.6)** Use long division: $15 \div 8 = 1$ r7, bring down the 1 to get $71 \div 8 = 8$ r7, bring down the 2 to get $72 \div 8 = 9$. The quotient is 189 with no remainder. Statements A and D are correct (each site gets exactly 189 bricks, and the quotient is 189). Statements B, C, and E are incorrect because there is no remainder, each site gets 189 not 190, and the first step has the wrong remainder.
- Choice B is correct.** **(4.MD.7)** The diagram shows a right angle between horizontal and vertical rays. The measure is **90°**.
- Choice A is correct.** **(4.NF.4)** The pizza was cut into 12 equal slices, so each slice is $\frac{1}{12}$. Mia ate 7 slices, which equals $7 \times \frac{1}{12} = \frac{7}{12}$.
- Choice B is correct.** **(4.G.3)** A non-square rhombus (diamond shape) has two diagonals that each create a line of symmetry. Each diagonal splits the shape into two matching triangles. The answer is It has 2 lines of symmetry.
- Choice A is correct.** **(4.MD.9)** Three rays meet at a point. The first two rays form an angle by adding: $27^\circ + 43^\circ = \mathbf{70^\circ}$.
- Choice D is correct.** **(4.OA.3)** Two steps! Step 1: share equally among teams: $96 \div 6 = 16$ uniforms per team. Step 2: each team gives away 5: $16 - 5 = 11$ uniforms left per team.
- Choice D is correct.** **(4.NBT.3)** We're rounding to the nearest thousand. Look at the hundreds digit: 3. Since $3 < 5$, we round DOWN and keep the thousands digit as 2, giving us **12,000**. ✓
- The correct answer is 3.** **(4.NBT.1)** Find every pair that multiplies to 28: 1×28 , 2×14 , 4×7 . (Note: 3, 5, and 6 don't divide 28 evenly.) So there are **3** factor pairs.
- Choice D is correct.** **(4.NBT.2)** Counting from the right: ones, tens, hundreds, thousands. The thousands digit is 2 ✓
- Choice D is correct.** **(4.OA.1)** We know the second aquarium has 24 fish, and that's 6 times the first. To find the smaller amount, divide: $24 \div 6 = 4$ fish.



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Hi, Math Athlete!

◇ 7 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

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:

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- ✓ 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