

8

North Dakota

NDSA

GRADE 4

PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 North Dakota NDSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question Grade 4 practice rounds for NDSA, built around prairie trails, badland colors, and steady reading habits, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, North Dakota Math Explorer!

Eight steady rounds on the Peace Garden State math route

This book gives you eight full Grade 4 practice tests for NDSA. Each round uses prairie trails, badland colors, and steady reading habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

North Dakota 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 North Dakota NDSA 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 Peace Garden State 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?

Eight tests, 240 questions, and a full NDSA 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 6–8	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.

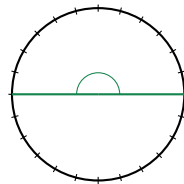


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- 1) A rectangle has a length of 11 feet and a width of 7 feet. What is its perimeter?
- A. 36 ft C. 54 ft
 B. 18 ft D. 77 ft
- 2) Which of the following does **not** have at least one line of symmetry?
- A. Right isosceles triangle C. Scalene right triangle
 B. Equilateral triangle D. Isosceles trapezoid
- 3) Line segment PQ and line segment QP are:
- A. Different segments C. Perpendicular
 B. The same segment D. Parallel
- 4) 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 C. 5 buses
 B. 8 buses D. 7 buses



- 5) A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?
- A. 90 one-degree angles C. 270 one-degree angles
 B. 180 one-degree angles D. 360 one-degree angles

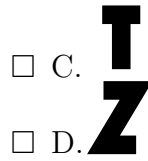
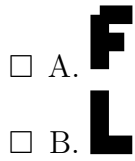


- 6) Sam has 3 dimes and 30 pennies. Which shows why these amounts are equal?
- A. 3 dimes = $\frac{3}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar
- B. 3 dimes = $\frac{30}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar
- C. 3 dimes = $\frac{3}{100}$ dollar; 30 pennies = $\frac{30}{100}$ dollar
- D. 3 dimes = $\frac{13}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar
- 7) Which is NOT a multiple of $\frac{1}{6}$?
- A. $\frac{3}{6}$
- B. $\frac{2}{6}$
- C. $\frac{2}{5}$
- D. $\frac{5}{6}$
- 8) Which multiplication problem has the product 156?
- A. 12×12
- B. 13×13
- C. 14×12
- D. 13×12
- 9) A baker has $\frac{11}{8}$ pounds of sugar. Which shows one way to decompose this?
- A. $\frac{8}{8} + \frac{3}{8}$
- B. $\frac{5}{8} + \frac{4}{8} + \frac{1}{8}$
- C. $\frac{7}{8} + \frac{3}{8}$
- D. $\frac{6}{8} + \frac{4}{8}$
- 10) Which shape can be described as having four equal sides, two pairs of parallel sides, and four right angles?
- A. Trapezoid
- B. Rhombus
- C. Square
- D. Rectangle



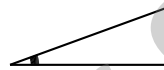
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1) Which block letter diagram has exactly one line of symmetry?



2) Subtract: $4\frac{2}{6} - 1\frac{5}{6}$.

3)



What is the measure of this angle?

- A. 10°
 B. 20°

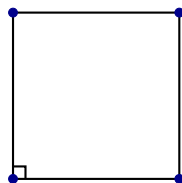
- C. 40°
 D. 2°

4) A running path is 4 kilometers long. How many meters is this?

- A. 40
 B. 400

- C. 4,000
 D. 40,000

5) How many right angles are shown in this figure?



- A. 1 right angle
 B. 2 right angles

- C. 3 right angles
 D. 4 right angles



- 6) A ribbon is $4\frac{3}{6}$ feet long. If $2\frac{2}{6}$ feet are cut off, how long is the remaining ribbon?

- 7) Mia has the digit 8 in the hundreds place of a four-digit number. If she moves this digit to the thousands place, the value of this digit increases by how much?

- A. 800 C. 8,000
 B. 200 D. 7,200

- 8) What is $\frac{7}{10} - \frac{3}{10}$?

- A. $\frac{4}{20}$ C. $\frac{10}{10}$
 B. $\frac{4}{10}$ D. $\frac{3}{10}$

- 9) A spinner is divided into sections by angles. Three sections measure 50° , 60° , and 70° . What is their combined angle measure?

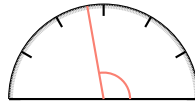
- A. 110° C. 180°
 B. 130° D. 120°

- 10) Which is the same as 0.5?

- A. $\frac{5}{10}$ C. $\frac{50}{10}$
 B. $\frac{5}{100}$ D. $\frac{50}{1}$



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1)

Ming measures an angle and the measurement is just past 90 degrees. Which classification is correct?

 A. Obtuse angle C. Acute angle B. Right angle D. Straight angle2) What is $4,125 \div 5$? A. 805 C. 825 B. 815 D. 8353) Write $\frac{9}{10}$ as a decimal.

4) Look at the place-value table and find the missing decimal.

Tenths	Hundredths	Decimal
5	8	?

What is the decimal?

 A. 0.58 C. 5.8 B. 0.85 D. 58.0

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5) A candy shop sells 3 large bags of candy. Each bag weighs 16 ounces. How many ounces is that total? If they sell for \$4 per bag, how much money do they make?

A. 13 ounces and \$10

C. 48 ounces and \$16

B. 16 ounces and \$12

D. 48 ounces and \$12

6) A library counted 43,678 books. Estimate to the nearest ten thousand.

A. 40,000

C. 44,000

B. 43,000

D. 50,000

7) How many multiples of 6 are there from 1 to 50?

A. 7

C. 9

B. 10

D. 8

8) A four-digit number has 9 in the thousands place and 2 in the tens place. The hundreds and ones digits are unknown. What is the minimum value this number could have?

A. 9,220

C. 9,002

B. 9,200

D. 9,020

9) What is $3 \times \frac{2}{6}$?

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

C. $\frac{2}{9}$

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

D. $\frac{6}{18}$

10) Which fraction is not equivalent to $\frac{1}{3}$: $\frac{1}{3}$, $\frac{2}{6}$, $\frac{3}{9}$, or $\frac{2}{5}$?



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.GM.M.5)** $P = 2(11) + 2(7) = 22 + 14 = 36$ ft.
- Choice C is correct.** **(4.GM.G.3)** A scalene right triangle has all three sides different lengths and a right angle. Since nothing matches on either side, no fold creates matching halves. The answer is Scalene right triangle.
- Choice B is correct.** **(4.GM.G.1)** Whether you call it segment PQ or segment QP , you're describing the exact same straight path between the two points. The order doesn't matter.
- Choice D is correct.** **(4.AR.OA.3)** $156 \div 24 = 6$ remainder 12. Six buses fit 144 students, but 12 students still need a ride—so we round up: $6 + 1 = 7$ buses.
- Choice B is correct.** **(4.GM.M.7)** A straight angle is a 180° angle, meaning it turns through 180 one-degree angles.
- Choice A is correct.** **(4.NO.NF.1)** Three dimes = $\frac{3}{10}$ dollar, and thirty pennies = $\frac{30}{100}$ dollar. They're equal!
- Choice C is correct.** **(4.NO.NBT.5)** Multiples of $\frac{1}{6}$ count by sixths. That gives us $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, \dots$. But $\frac{2}{5}$ doesn't fit this pattern, so it's not a multiple.
- Choice D is correct.** **(4.NO.NBT.5)** Break apart $13 = 10 + 3$ and multiply: $(10 \times 12) + (3 \times 12) = 120 + 36 = 156$.
- Choice A is correct.** **(4.NO.NBT.1)** The baker has $\frac{11}{8}$ pounds. One whole is $\frac{8}{8}$, leaving $11 - 8 = 3$ more eighths. So: $\frac{8}{8} + \frac{3}{8} = \frac{11}{8}$ ✓.
- Choice C is correct.** **(4.GM.G.2)** A square has all four of these properties combined: four equal sides, two pairs of parallel sides, and four right angles. No other quadrilateral has all these properties. The answer is C.
- Choice A is correct.** **(4.NO.NF.2)** The visual models show the story: $\frac{3}{4}$'s circle is clearly more filled. Verify with twelfths: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$, so $\frac{3}{4} > \frac{2}{3}$.
- Choice D is correct.** **(4.NO.NBT.6)** Divide: $15 \div 7 = 2$ r1, bring down the 1 to get $11 \div 7 = 1$ r4, bring down the 2 to get $42 \div 7 = 6$. Each charity receives \$216.
- Choice B is correct.** **(4.GM.M.7)** The corners of a picture frame are right angles (perfect square corners).
- Choice B is correct.** **(4.NO.NF.1)** Compare the tenths place: $9 > 3$, so $0.93 > 0.39$. The second car is more expensive.
- Choice C is correct.** **(4.NO.NBT.5)** For $4 \times \frac{2}{3}$, we need 4 bars, each divided into 3 parts with 2 parts shaded in each bar. Picture C shows four bars with two-thirds shaded in each. The answer is Picture C.
- Choice C is correct.** **(4.NO.NBT.1)** In 3,817, the digit 8 is in the hundreds place, so it represents 8 hundreds (or 800). ✓
- Choice D is correct.** **(4.AR.OA.3)** Look at the picture: Raj's group has 2 rows of 6 books—that's 2 times Mira's amount. Multiply: $2 \times 6 = 12$ books.
- The correct answer is B, C.** **(4.AR.OA.5)** Equations that show "2 times as many" have 2 as a factor in the multiplication. Choice B ($10 = 2 \times 5$) and choice C ($14 = 2 \times 7$) both do. Choices A and D show addition (not multiplication), and choice E has 6 as the multiplier, not 2.
- Choice D is correct.** **(4.AR.OA.4)** Circles in each figure: 1, 3, 6. The increases are +2, then +3. Next increase is +4: $6 + 4 = 10$ circles.
- The correct answer is $\frac{8}{9}$.** **(4.NO.NBT.1)** Maya painted her bedroom wall over two days. Add the fractions with like denominators: $\frac{6}{9} + \frac{2}{9} = \frac{8}{9}$ of the wall was painted in total.
- Choice A is correct.** **(4.NO.NBT.1)** Four copies of $\frac{1}{4}$ are $\frac{4}{4}$, which makes one whole. Count the numerators: $1 + 1 + 1 + 1 = 4$.
- Choice C is correct.** **(4.NO.NBT.1)** Only C is true: $100,000 = 100,000$. The other statements don't work: A and B involve different number sizes, and D reverses the comparison ✓
- Choice B is correct.** **(4.GM.M.6)** The ray falls between the 60° benchmark and the 90° benchmark. It's closer to the midpoint between them, which is around 75° . The answer is 75 degrees.
- Choice C is correct.** **(4.DPS.D.3)** Chen rides 18 kilometers on Saturday and 25 kilometers on Sunday. Add: $18 + 25 = 43$ km. His total distance is 43 kilometers.
- Choice B is correct.** **(4.NO.NBT.5)** The numerator is 8 and the denominator is 10. This means we have 8 copies of $\frac{1}{10}$, which we write as $8 \times \frac{1}{10}$.



Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 8 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

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 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.

TOPICS COVERED

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



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