

# 7

# North Dakota

## NDSA

## 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 North Dakota NDSA Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Peace Garden State math route

This book gives you seven 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?

Seven tests, 210 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 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) 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?

- 2) Write 52,047 in expanded form.

- A.  $50,000 + 2,000 + 400 + 7$   
 B.  $50,000 + 2,000 + 4 + 7$

- C.  $50,000 + 20,000 + 40 + 7$   
 D.  $50,000 + 2,000 + 40 + 7$

- 3) Round 34,750 to the nearest thousand.

- 4) A carpenter measures an angle made by two boards. The angle is split by a third board into parts measuring  $38^\circ$  and  $52^\circ$ . What is the total angle measure?

- A.  $14^\circ$   
 B.  $90^\circ$

- C.  $76^\circ$   
 D.  $52^\circ$

- 5) Ray  $AB$  starts at point:

- A. Any point between  $A$  and  $B$   
 B. Point  $B$

- C. Point  $A$   
 D. The middle of the line



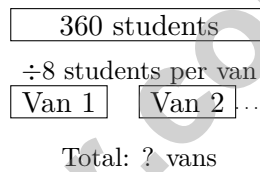
6) Subtract:  $6,320 - 1,485 = ?$

- A. 4,835                       C. 4,935  
 B. 5,835                       D. 5,935

7) Which statement describes a trapezoid?

- A. It has two pairs of parallel sides.       C. It has exactly one pair of parallel sides.  
 B. It has no parallel sides.                       D. It has four equal sides.

8) A van can carry 8 students. If there are 360 students going on a field trip, how many vans are needed?



- A. 45                                       C. 48  
 B. 42                                       D. 40

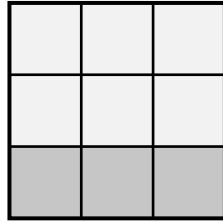
9)

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



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9 equal pieces

10)

A chocolate bar has 9 pieces. Each piece is  $\frac{1}{9}$  of the bar. If you eat 3 pieces, what fraction of the bar do you eat?

- A.  $\frac{3}{27}$  of the bar                       C.  $\frac{1}{27}$  of the bar  
 B.  $\frac{3}{9}$  of the bar (or  $\frac{1}{3}$  of the bar)                       D.  $\frac{6}{9}$  of the bar

11) Ava ran 0.3 kilometers and then 0.5 kilometers. How far did she run in total?

- A. 0.2 km                                       C. 0.35 km  
 B. 0.8 km                                       D. 1.0 km

12) How many degrees larger is  $145^\circ$  than  $55^\circ$ ?13) What is  $7\frac{4}{10} - 2\frac{5}{10}$ ?

- A.  $4\frac{8}{10}$                                        C.  $5\frac{1}{10}$   
 B.  $4\frac{9}{10}$                                        D.  $5\frac{9}{10}$



1) An angle measures  $120^\circ$  and is divided into three equal parts. What is the measure of each part?

A.  $30^\circ$

C.  $60^\circ$

B.  $40^\circ$

D.  $120^\circ$

2) Mia shaded  $\frac{1}{8}$  on three different fraction bars. What is the total shaded?

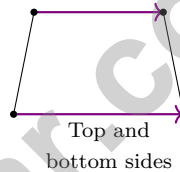
A.  $\frac{1}{8}$

C.  $\frac{3}{24}$

B.  $\frac{3}{8}$

D.  $\frac{1}{24}$

3) Look at the quadrilateral. Which pair of sides are parallel?



A. Top and bottom

C. All four sides

B. Left and right

D. No sides are parallel

4) A recipe calls for  $\frac{1}{4}$  cup of sugar. If Miguel triples the recipe, how much sugar does he need?

A.  $\frac{1}{12}$  cup

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

B.  $\frac{1}{3}$  cup

D.  $1\frac{1}{4}$  cups



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1) Which decimal is greater: 0.64 or 0.46?

2) Ava has 8,234 stickers. She gives 2,456 stickers to her friend. How many stickers does Ava have left?

A. 5,778

C. 6,778

B. 5,678

D. 6,678

3) How many lines of symmetry does a square have?

A. 1

C. 3

B. 2

D. 4

4) Which number is divisible by 5?

A. 84

C. 105

B. 91

D. 113

5) What is 12,389 rounded to the nearest thousand?

A. 10,000

C. 13,000

B. 12,400

D. 12,000



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6) What is  $2 \times \frac{2}{5}$ ?

A.  $\frac{2}{10}$

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

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

D.  $\frac{4}{10}$

7) Write  $\frac{6}{10}$  as a decimal.

A. 0.06

B. 0.6

C. 6.0

D. 60.0

8) Find  $\frac{3}{4} + \frac{2}{4}$  as a mixed number.

9) Which pattern shows all multiples of 6?

A. 2, 4, 6, 8, 10

B. 6, 12, 18, 24, 30

C. 3, 6, 9, 12, 15

D. 5, 10, 15, 20, 25

10) A chocolate bar is divided into 5 equal pieces. Ming eats 4 pieces. What fraction of the bar did Ming eat?

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

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

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

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

11) Clock hands point at 3 and at 9. What is the angle between them?

A.  $60^\circ$

B.  $90^\circ$

C.  $120^\circ$

D.  $180^\circ$



## 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 same amount.** (4.NO.NF.2) Check if they're equivalent:  $\frac{2}{6}$  simplifies by dividing both by 2 to get  $\frac{1}{3}$ . Same fraction, so they ate the same!
- Choice D is correct.** (4.NO.NBT.1) Ten-thousands:  $5 \rightarrow 50,000$ ; thousands:  $2 \rightarrow 2,000$ ; tens:  $4 \rightarrow 40$ ; ones:  $7 \rightarrow 7 \checkmark$
- The correct answer is 35,000.** (4.NO.NBT.3) We're rounding to the nearest thousand. The hundreds digit is  $7 \geq 5$ , so round UP from 34,000 to **35,000**.  $\checkmark$
- Choice B is correct.** (4.GM.M.7) The third board splits the angle. Add both parts:  $38^\circ + 52^\circ = 90^\circ$ .
- Choice C is correct.** (4.GM.G.1) When you name a ray, the first letter always tells you where it starts. Ray  $AB$  begins at  $A$  and goes through  $B$  forever.
- Choice A is correct.** (4.NO.NBT.4) Start in the ones place:  $0 < 5$ , so regroup one ten as 10 ones. Then subtract from right to left carefully. The answer is **4,835**.
- Choice C is correct.** (4.GM.G.2) A trapezoid is defined by having exactly one pair of parallel sides. This distinguishes it from parallelograms, which have two pairs of parallel sides. The answer is **C**.
- Choice A is correct.** (4.NO.NBT.6) Ask:  $8 \times ? = 360$ . Since  $8 \times 45 = 360$ , we need **45** vans for all the students.
- Choice B is correct.** (4.NO.NBT.1) 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.NO.NBT.5) Eating 3 pieces, where each is  $\frac{1}{9}$  of the bar, means we multiply:  $3 \times \frac{1}{9} = \frac{3}{9}$ , which simplifies to  $\frac{1}{3}$ .
- Choice B is correct.** (4.NO.NF.1) Add the two decimals:  $0.3 + 0.5 = 0.8$  kilometers.
- The correct answer is 90.** (4.GM.M.6) Subtract the smaller angle from the larger:  $145^\circ - 55^\circ = 90^\circ$ . So the  $145^\circ$  angle is  $90^\circ$  larger (exactly one right angle larger!). The answer is **90** degrees.
- Choice B is correct.** (4.NO.NBT.1) Since  $\frac{4}{10} < \frac{5}{10}$ , regroup:  $7 \frac{4}{10} = 6 \frac{14}{10}$ . Subtract:  $6 \frac{14}{10} - 2 \frac{5}{10} = 4 \frac{9}{10}$ .
- Choice D is correct.** (4.AR.OA.3) "2 times as many" is a multiplication signal:  $2 \times 18 = 36$  dolls in the afternoon.
- Choice A is correct.** (4.NO.NBT.1) Three pieces, all the same:  $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$ . Add the numerators:  $3 + 3 + 3 = 9$ , giving  $\frac{9}{12} \checkmark$ .
- The correct answer is A, C.** (4.AR.OA.4) Both numbers must divide 48 evenly. Check each choice:  $48 \div 6 = 8 \checkmark$ ,  $48 \div 7 = 6 \text{ r } 6$ ,  $48 \div 8 = 6 \checkmark$ ,  $48 \div 9 = 5 \text{ r } 3$ ,  $48 \div 10 = 4 \text{ r } 8$ . So choices A (6) and C (8) are both factors.
- Choice A is correct.** (4.NO.NBT.5) Sam has 3 cookies, each using  $\frac{2}{3}$  cup of flour. Multiply:  $3 \times \frac{2}{3} = \frac{3 \times 2}{3} = \frac{6}{3} = 2$  cups. The answer is **2** cups.
- Choice A is correct.** (4.NO.NBT.1) The rectangle has 8 equal columns, and 5 are painted red. So  $\frac{5}{8}$  is red, which is  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ —five unit fractions.
- Choice B is correct.** (4.NO.NBT.5) Two bars stacked, each  $\frac{1}{4}$  tall:  $2 \times \frac{1}{4} = \frac{2}{4}$ .
- Choice D is correct.** (4.NO.NBT.1) From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes  $5 \times 1,000 = 5,000$ . Answer: The **5**.  $\checkmark$
- Choice B is correct.** (4.DPS.D.3) There are 96 ounces of dried apples. Each bag holds 8 ounces. Divide:  $96 \div 8 = 12$  bags. He needs **12** bags.
- Choice C is correct.** (4.GM.M.7) From 12 to 9 going clockwise is three-quarters of the clock, which equals **270**°.
- Choice D is correct.** (4.AR.OA.5) Here we already know the larger amount (36) and the comparison (9 times). To find the smaller amount, "undo" the multiplication by dividing:  $36 \div 9 = 4$ . Yesterday the baker made **4** muffins.
- Choice B is correct.** (4.GM.M.1) Since 1 liter = 1,000 milliliters, multiply:  $3 \times 1,000 = 3,000$  mL. The answer is **3,000** mL.
- Choice D is correct.** (4.NO.NF.2) Check D: Cross-multiply  $\frac{2}{5}$  and  $\frac{4}{12}$ :  $2 \times 12 = 24$  and  $5 \times 4 = 20$ . They're not equal, so D is false. A, B, and C are all true equivalent fractions.
- Choice C is correct.** (4.DPS.D.2) On the line plot,  $\frac{1}{4}$  inch has 2 X marks, while  $\frac{3}{4}$  inch has 3 X marks. So  $\frac{3}{4}$  inch has the most.



## Hi, Brave Explorer!

◇ What a trip! You explored 7 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 7 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

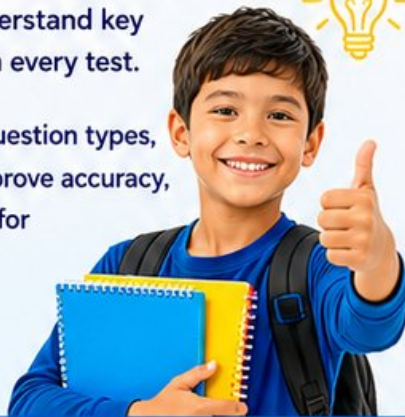
**Jay Daie**

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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7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included