

# 5

# North Dakota NDSA

Standards-Aligned Review with  
Mixed Practice and Answer Key

A+

# 5 North Dakota NDSA Grade 4 Math Practice Tests

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



Five 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.

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# Welcome, North Dakota Math Explorer!

Five steady rounds on the Peace Garden State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.



Scan me!  
For more practice  
& answers

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- 1) How many lines of symmetry does a regular triangle have?
- A. 0  C. 2  
 B. 1  D. 3
- 2) The population of City A is 47,892. City B's population is 23,456 less than City A. What is City B's population?
- A. 24,436  C. 25,436  
 B. 24,536  D. 24,346
- 3) Express 0.68 as a fraction and read it aloud.
- A.  $\frac{68}{10}$ ; sixty-eight tenths  C.  $\frac{68}{100}$ ; sixty-eight hundredths  
 B.  $\frac{6}{8}$ ; six eighths  D.  $\frac{68}{1000}$ ; sixty-eight thousandths
- 4) A paper strip is divided into 3 equal parts. All parts are colored. Show this as a sum of unit fractions.



All 3 parts colored

- A.  $\frac{1}{3}$   C.  $\frac{3}{1}$   
 B.  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$   D.  $\frac{2}{3}$
- 5) A rectangle has an area of 36 square inches. If the length is 9 inches, what is the width?
- A. 3 in  C. 5 in  
 B. 4 in  D. 6 in



- 6) A student uses a protractor to measure two adjacent angles at a vertex. One angle is  $41^\circ$  and the other is  $139^\circ$ . What is the combined measure of both angles?
- A.  $98^\circ$   C.  $180^\circ$   
 B.  $139^\circ$   D.  $41^\circ$
- 7) A bottle holds  $\frac{3}{8}$  liter. How much do 4 bottles hold altogether?
- A.  $\frac{3}{32}$  liter  C.  $\frac{7}{8}$  liter  
 B.  $\frac{12}{8}$  liters or  $1\frac{1}{2}$  liters  D.  $\frac{4}{8}$  liter
- 8) The value of the digit 9 in the thousands place is how many times the value of the digit 9 in the hundreds place?
- A. 1,000  C. 9 times  
 B. 100  D. 10
- 9) Which correctly decomposes  $\frac{6}{4}$  as a mixed number?
- A.  $1\frac{2}{4}$   C.  $2\frac{2}{4}$   
 B.  $\frac{1}{4} + \frac{5}{4}$   D.  $\frac{2}{4} + \frac{2}{4} + \frac{2}{4}$
- 10) A baker has  $3\frac{2}{5}$  pounds of almonds. She uses  $2\frac{1}{5}$  pounds in a recipe. How many pounds of almonds are left?



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11) Which is NOT a geometric figure mentioned in points, lines, and rays?

- A. A point                       C. A ray  
 B. A line                         D. A circle

12) Which decimal equals  $\frac{8}{10}$ ?

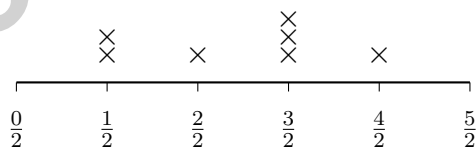
- A. 0.8                               C. 0.88  
 B. 0.08                            D. 0.088

13) A factory starts with 200 toy cars. They sell 50 cars. Then they pack the remaining cars into boxes of 6. How many complete boxes can they fill?

- A. 24                                 C. 26  
 B. 33                                 D. 25

14) What is the sixth multiple of 4?

15) Look at this line plot with halves:



How many more X marks are at  $\frac{3}{2}$  than at  $\frac{1}{2}$ ?

- A. 1                                     C. 3  
 B. 2                                     D. 4



- 1) A single muffin uses  $\frac{1}{5}$  cup of sugar. How much sugar is needed for 8 muffins?
- A.  $\frac{1}{40}$  cup                       C.  $\frac{5}{8}$  cup  
 B.  $\frac{8}{5}$  cups                       D.  $\frac{8}{40}$  cup
- 2) Noah measured an angle and found it has 75 one-degree angles. What is the measure of the angle?
- A.  $75^\circ$                                C.  $7.5^\circ$   
 B.  $150^\circ$                              D.  $750^\circ$
- 3) Which is equivalent to  $\frac{9}{10}$ ?
- A.  $\frac{9}{100}$                                C.  $\frac{90}{100}$   
 B.  $\frac{19}{100}$                              D.  $\frac{99}{100}$
- 4) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?
- A. 64                                       C. 256  
 B. 512                                     D. 128
- 5) Look at the place-value chart below. What is the value of the digit in the tens place?

Thousands	Hundreds	Tens	Ones
2	3	7	4

- A. 7     C. 700  
 B. 7,000                                       D. 70

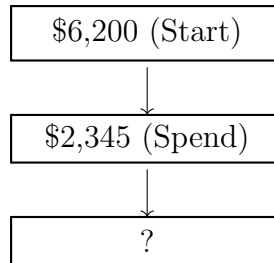


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& answers

6) Diego spins a wheel. The wheel rotates  $135^\circ$ . What fraction of a full turn is this?

- A.  $\frac{1}{4}$   
 B.  $\frac{3}{8}$

- C.  $\frac{1}{3}$   
 D.  $\frac{1}{2}$



Marcus has \$6,200. He spends \$2,345. How much money does he have left?

- A. \$3,855  
 B. \$3,945

- C. \$4,055  
 D. \$3,955

8) Which decimal is greatest?

- A. 0.48  
 B. 0.84

- C. 0.44  
 D. 0.41

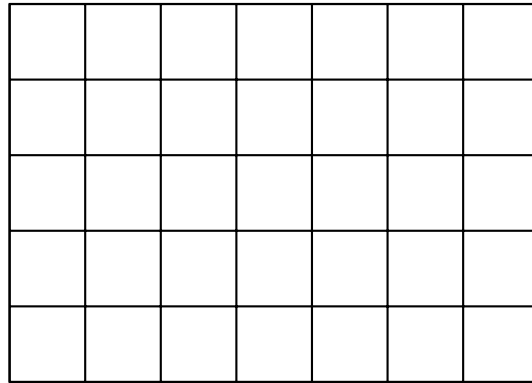
9) Which expression shows  $\frac{3}{5}$  as a sum of unit fractions?

- A.  $\frac{1}{5} + \frac{1}{5}$   
 B.  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

- C.  $\frac{3}{5} + \frac{3}{5} + \frac{3}{5}$   
 D.  $\frac{3}{5}$







7)

The grid shows a rectangle where each small square is 1 square unit. What is the perimeter of the rectangle?

- A. 35 units
- B. 48 units
- C. 24 units
- D. 12 units



8)

A student said this angle measures 173 degrees. Is she correct?

- A. Yes, the angle is close to 180 degrees
- B. No, the angle is much smaller, around 7 degrees
- C. Yes, all small angles are close to 180 degrees
- D. No, you cannot measure angles smaller than 30 degrees

9) Which number is a multiple of 7?

- A. 45
- B. 60
- C. 52
- D. 49

## 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 D is correct.** (4.GM.G.3) A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is **3** lines of symmetry.
- Choice A is correct.** (4.NO.NBT.4) City B is smaller, so we subtract.  $47,892 - 23,456 = 24,436$  people.
- Choice C is correct.** (4.NO.NF.1) 0.68 uses both the tenths place (the 6) and the hundredths place (the 8), so it equals  $\frac{68}{100}$  or sixty-eight hundredths.
- Choice B is correct.** (4.NO.NBT.1) The paper strip is divided into 3 equal parts, and all 3 are colored. So the whole strip is colored:  $\frac{3}{3}$ . As unit fractions:  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ .
- Choice B is correct.** (4.GM.M.5) Use the area formula:  $\text{area} = \ell \times w$ , so  $36 = 9 \times w$ . Divide to find  $w$ :  $w = 36 \div 9 = 4$  in.
- Choice C is correct.** (4.GM.M.7) These two adjacent angles form a straight line together:  $41^\circ + 139^\circ = 180^\circ$ .
- Choice B is correct.** (4.NO.NBT.5) 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.NO.NBT.1) A digit in the thousands place is worth digit  $\times 1,000$ ; in the hundreds place, it's worth digit  $\times 100$ . The ratio is  $1,000 \div 100 = 10$ . ✓
- Choice A is correct.** (4.NO.NBT.1) One whole is  $\frac{4}{4}$ , and  $\frac{6}{4}$  has 6 fourths total. Subtract:  $6 - 4 = 2$ , so the mixed number is  $1\frac{2}{4}$ . ✓
- The correct answer is  $1\frac{1}{5}$ .** (4.NO.NBT.1) The baker used some almonds from her supply. Subtract the amount used:  $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$  pounds of almonds remain.
- Choice D is correct.** (4.GM.G.1) This topic is all about points, lines, rays, and angles — circles are a different geometric shape learned in another lesson.
- Choice A is correct.** (4.NO.NF.1) The fraction  $\frac{8}{10}$  means 8 tenths, which is 0.8.
- Choice D is correct.** (4.AR.OA.3) Two steps! Step 1: cars left after selling:  $200 - 50 = 150$ . Step 2: pack into boxes of 6:  $150 \div 6 = 25$  complete boxes (no remainder).
- The correct answer is 24.** (4.AR.OA.4) The  $n$ th multiple of 4 is just  $4 \times n$ . So the sixth multiple is  $4 \times 6 = 24$ . Skip-count to verify: 4, 8, 12, 16, 20, 24. ✓
- Choice A is correct.** (4.DPS.D.2) Look at  $\frac{1}{2}$  inch: there are 2 X marks. At  $\frac{3}{2}$  inches: there are 3 X marks. The difference is  $3 - 2 = 1$ .
- Choice A is correct.** (4.GM.M.7) The angle spans between two rays in the lower portion of the circle, measuring  $30^\circ$ .
- Choice B is correct.** (4.GM.G.2) An acute triangle is identified by all three angles being less than 90 degrees. When all angles are acute, the triangle itself is classified as acute. The answer is **B**.
- The correct answer is B, C.** (4.GM.M.1) Check each option. A: 50 cm = 0.5 m, wrong. B: 500 cm = 5 m, correct! C: 5,000 mm = 5 m, correct! D: 5,000 cm = 50 m, wrong. E: 5 m = 0.005 km, not 0.05 km. The correct answers are **B** and **C**.
- Choice A is correct.** (4.NO.NBT.6) Divide:  $20 \div 9 = 2$  r2, bring down the 1 to get  $21 \div 9 = 2$  r3, bring down the 6 to get  $36 \div 9 = 4$ . Each box holds **224** action figures.
- Choice B is correct.** (4.GM.M.7) A  $35^\circ$  angle is made of **35** one-degree angles.
- Choice A is correct.** (4.NO.NBT.5) We have 2 strings that are each  $\frac{2}{8}$  meter long. We multiply:  $2 \times \frac{2}{8} = \frac{4}{8}$ , which simplifies to  $\frac{1}{2}$  meter.
- Choice B is correct.** (4.GM.M.6) The ray points to the  $27^\circ$  mark, which is between  $20^\circ$  and  $30^\circ$ . Since  $27^\circ < 90^\circ$ , this is a small acute angle. The answer is **27** degrees.
- Choice A is correct.** (4.DPS.D.3) Step 1: Find total spent:  $12 + 28 = 40$  dollars. Step 2: Subtract from \$50:  $50 - 40 = 10$  dollars. Leo has **\$10** left.
- Choice A is correct.** (4.NO.NBT.5) When we multiply a whole number by a unit fraction, we get that many copies of the unit fraction. So  $5 \times \frac{1}{12}$  means 5 copies of  $\frac{1}{12}$ , which is  $\frac{5}{12}$ .



## Hi, Math Athlete!

◇ 5 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trainer

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
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- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

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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.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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