

# 6 North Dakota NDSA

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS**  
**BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY**  
**ALIGNED STATE STANDARDS**

# 6 North Dakota NDSA Grade 4 Math Practice Tests

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



Six 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!

Six steady rounds on the Peace Garden State math route

This book gives you six 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?

Six tests, 180 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 4–6	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) Which fraction is NOT equal to  $\frac{1}{2}$ ?

- A.  $\frac{3}{6}$   
 B.  $\frac{4}{8}$

- C.  $\frac{5}{10}$   
 D.  $\frac{2}{5}$

2) A baker makes cookies and sells them at \$2 each. If she sells 18 cookies, how much money does she earn?

- A. \$16  
 B. \$20

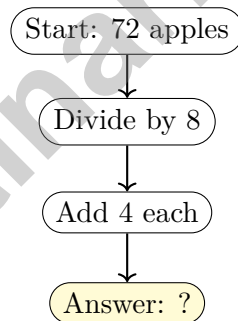
- C. \$36  
 D. \$40

3) Solve:  $\frac{4}{6} + \frac{1}{6} = ?$

- A.  $\frac{5}{12}$   
 B.  $\frac{5}{6}$

- C.  $\frac{4}{6}$   
 D.  $\frac{6}{6}$  or 1

4)



A farmer has 72 apples. He puts them equally into 8 baskets. Then he adds 4 apples to each basket. How many apples are in each basket now?

- A. 12  
 B. 14

- C. 13  
 D. 15



5) What is  $2\frac{5}{8} + 1\frac{3}{8}$ ?

A.  $3\frac{6}{8}$

B. 4

C.  $3\frac{7}{8}$

D.  $2\frac{8}{8}$

6) A pencil is  $\frac{2}{5}$  decimeter long. What is the total length of 5 pencils?

A.  $\frac{2}{25}$  decimeter

B.  $\frac{10}{5}$  decimeters (or 2 decimeters)

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

D.  $\frac{10}{25}$  decimeter

7) Two smaller angles are combined to form a larger angle. The smaller angles measure  $22^\circ$  and  $58^\circ$ . What is the measure of the larger angle?

A.  $80^\circ$

B.  $36^\circ$

C.  $58^\circ$

D.  $90^\circ$

8) Zoe drinks  $\frac{2}{5}$  liter each day for 5 days. How many liters total?

9) The fraction bar below is divided into equal parts. How many parts are shaded, and what fraction do they represent?



A. 1 part;  $\frac{1}{5}$

B. 2 parts;  $\frac{2}{5}$

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

D. 5 parts;  $\frac{5}{5}$



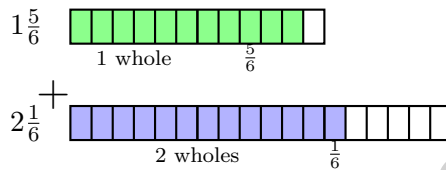
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- 10) A triangle has all three sides of equal length. What can you say about its angles?
- A. All angles are equal and acute       C. One angle is greater than 90 degrees  
 B. One angle is 90 degrees       D. The angles are different sizes
- 11) Which letter has 2 lines of symmetry?
- A. *E*       C. *P*  
 B. *X*       D. *Q*
- 12) A toy store displays 8 shelves of action figures. Each shelf holds 45 figures. How many figures are on display?
- A. 280       C. 320  
 B. 400       D. 360
- 13) What is  $\frac{7}{10}$  written as a fraction with denominator 100?
- A.  $\frac{7}{100}$        C.  $\frac{17}{100}$   
 B.  $\frac{70}{100}$        D.  $\frac{77}{100}$
- 14) A rope is 12 feet long. How many yards is this?
- A. 2       C. 4  
 B. 3       D. 6



1) Ava has read  $\frac{7}{10}$  of her book. She read  $\frac{3}{10}$  on Monday and the rest on Tuesday. How much did she read on Tuesday?

- A.  $\frac{2}{10}$ 
 C.  $\frac{5}{10}$   
 B.  $\frac{4}{10}$ 
 D.  $\frac{10}{10}$

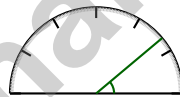


2)

What is the sum shown by the bar diagrams?

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

3)



What is the measure of the angle shown?

- A. 35 degrees
  C. 45 degrees  
 B. 40 degrees
  D. 50 degrees

4) A race track is 400 meters long. If Maria runs around it 3 times, how many meters does she run in total?

- A. 400 m
  C. 1,200 m  
 B. 800 m
  D. 1,500 m



5) Which numeral represents “five thousand, two hundred thirty-four”?

- A. 52,340                       C. 523,400  
 B. 5,324                         D. 5,234

6) Ava buys 3 boxes of markers. Each box has 12 markers. She also buys 6 loose markers. How many markers does she have in total?

- A. 30                                 C. 18  
 B. 36                                 D. 42

7) Which equation does this bar model show?



- A.  $2 \times \frac{2}{3}$                                  C.  $4 \times \frac{1}{2}$   
 B.  $2 \times \frac{1}{4}$                                  D.  $2 \times \frac{1}{2}$

8) Is 27 prime or composite?

- A. Prime                                 C. Neither  
 B. Not defined                         D. Composite

9) Which shows a sum greater than 1?

- A.  $\frac{5}{8} + \frac{4}{8}$                                  C.  $\frac{4}{8} + \frac{2}{8}$   
 B.  $\frac{3}{6} + \frac{2}{6}$                                  D.  $\frac{5}{10} + \frac{3}{10}$

10) A spinner makes a  $\frac{1}{4}$  turn. How many degrees does it rotate?

- A.  $45^\circ$                                  C.  $90^\circ$   
 B.  $60^\circ$                                  D.  $120^\circ$



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1) Find  $4 \times \frac{1}{3}$ .

2) What is  $\frac{90}{100}$  as a decimal?

A. 0.09

C. 9.0

B. 0.9

D. 0.99

3) Which number is less than 345,200?

A. 345,300

C. 346,200

B. 354,200

D. 345,100

4) A pattern is: 1, 4, 9, 16, 25, ... What is the next term?

A. 30

C. 36

B. 35

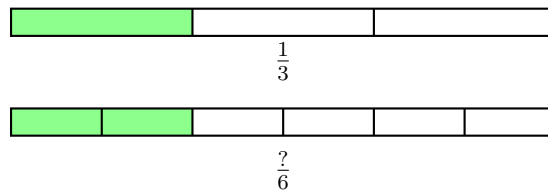
D. 40

5) When measuring an angle, one ray is aligned with what degree mark?



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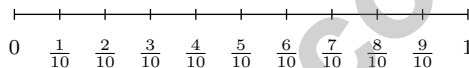
6) Look at the two fraction bars. Both bars are the same length.



What number should replace the question mark?

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

7) On a number line below, mark the position you reach after making 8 jumps of  $\frac{1}{10}$  from 0.



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

8) In the number 7,707, the digit 7 in the hundreds place has a value that is how many times the digit 7 in the ones place?

- A. 10                                       C. 1,000  
 B. 1                                       D. 100

9) Sam had  $2\frac{2}{4}$  meters of string. He used  $1\frac{1}{4}$  meters for a project. How much string does he have left?

- A.  $1\frac{3}{4}$                                        C.  $2\frac{1}{4}$   
 B.  $1\frac{1}{4}$                                        D.  $3\frac{3}{4}$

## 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.NO.NF.2) Which is NOT  $\frac{1}{2}$ ? The first three all reduce to  $\frac{1}{2}$ :  $\frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{1}{2}$ . But  $\frac{2}{5}$  is less than half.
- Choice C is correct.** (4.DPS.D.3) Cookies sell for \$2 each. She sells 18 cookies, so multiply:  $2 \times 18 = 36$  dollars. She earns \$36.
- Choice B is correct.** (4.NO.NBT.1) With same-size sixths, combine them:  $4 + 1 = 5$ , so the answer is  $\frac{5}{6}$ .
- Choice C is correct.** (4.AR.OA.3) Follow the flow chart! Step 1:  $72 \div 8 = 9$  apples in each basket. Step 2: add 4 more to each basket:  $9 + 4 = 13$  apples per basket now.
- Choice B is correct.** (4.NO.NBT.1) Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$ . Combine into a whole:  $3 + 1 = 4$ .
- Choice B is correct.** (4.NO.NBT.5) Five pencils, each  $\frac{2}{5}$  decimeter long, give us  $5 \times \frac{2}{5} = \frac{10}{5} = 2$  decimeters total.
- Choice A is correct.** (4.GM.M.7) When smaller angles combine, they add to form the larger angle:  $22^\circ + 58^\circ = 80^\circ$ .
- The correct answer is 2.** (4.NO.NBT.5) Zoe drinks  $\frac{2}{5}$  liter each day for 5 days. Multiply:  $5 \times \frac{2}{5} = \frac{5 \times 2}{5} = \frac{10}{5} = 2$  liters. The answer is 2 liters.
- Choice C is correct.** (4.NO.NBT.5) Count the shaded parts: 4 parts are shaded. Count the equal parts: 5 total parts. So the shaded fraction is  $4 \times \frac{1}{5} = \frac{4}{5}$ .
- Choice A is correct.** (4.GM.G.2) An equilateral triangle has three equal sides and three equal angles. Each angle measures 60 degrees, which is acute (less than 90 degrees). The answer is A.
- Choice B is correct.** (4.GM.G.3) The letter X is like two lines crossing. Both diagonal directions (from top-left to bottom-right, and from top-right to bottom-left) create matching halves. The answer is letter X.
- Choice D is correct.** (4.NO.NBT.5) Break apart:  $8 \times (40 + 5) = 320 + 40 = 360$  figures.
- Choice B is correct.** (4.NO.NF.1) Let's convert  $\frac{7}{10}$  to a fraction with denominator 100 by multiplying:  $\frac{7}{10} = \frac{7 \times 10}{10 \times 10} = \frac{70}{100}$ .
- Choice C is correct.** (4.GM.M.1) Since 1 yard = 3 feet, divide:  $12 \div 3 = 4$  yards. The answer is 4 yards.
- Choice A is correct.** (4.GM.M.5) The grid shows 9 units by 3 units. Area =  $9 \times 3 = 27$  sq units.
- Choice B is correct.** (4.GM.M.7) If three equal angles divide a circle:  $360^\circ \div 3 = 120^\circ$  per angle.
- Choice D is correct.** (4.NO.NBT.1) The digit 6 in the hundreds place is worth 600; in the thousands place, it's worth 6,000. The increase factor is  $6,000 \div 600 = 10$ . ✓
- The correct answer is A, D.** (4.NO.NF.2) Simplify  $\frac{2}{4}$ : divide both by 2 to get  $\frac{1}{2}$  (option A) ✓ Also,  $\frac{2}{4} = \frac{2 \times 2}{4 \times 2} = \frac{4}{8}$  (option D) ✓ The other options (B, C, E) are not equivalent—they don't equal  $\frac{1}{2}$ .
- Choice B is correct.** (4.NO.NF.1) Rewrite 0.6 as 0.60 to match. Since  $60 < 68$  hundredths,  $0.6 < 0.68$ .
- Choice D is correct.** (4.AR.OA.4) Check the differences:  $30 - 25 = 5$ ,  $25 - 20 = 5$ . Each term is 5 less. The rule is "subtract 5". ✓
- Choice C is correct.** (4.DPS.D.2) Count the X marks at values of 1 inch or less. At 0: 1 mark. At  $\frac{1}{2}$  inch: 2 marks. At 1 inch: 2 marks. Total:  $1 + 2 + 2 = 5$  marks.
- Choice A is correct.** (4.NO.NBT.1) The chocolate bar is shared, but some is left over. Step 1: Add what was eaten:  $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$ . Step 2: Subtract from the whole:  $\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$  left uneaten.
- The correct answer is 360.** (4.NO.NBT.6) Divide:  $21 \div 6 = 3$  r3, bring down the 6 to get  $36 \div 6 = 6$ , bring down the 0 to get  $0 \div 6 = 0$ . The farm fills 360 cartons of eggs.
- The correct answer is 0.8.** (4.NO.NF.1) The first place after the decimal point is the tenths place. The digit 8 sits in the tenths place, which means 8 groups of 0.1. So its value is  $8 \times 0.1 = 0.8$  (eight tenths). ✓
- Choice A is correct.** (4.NO.NBT.1) Tom ate 5 slices out of 11, which is the fraction  $\frac{5}{11}$ . This is 5 copies of  $\frac{1}{11}$ .
- Choice D is correct.** (4.AR.OA.5) "2 times as long" is a multiplication signal. The length is  $7 \times 2 = 14$  feet.
- Choice B is correct.** (4.GM.M.6) To measure an angle correctly, you must place one ray—called the baseline ray—right along the straight edge of the protractor, lined up with the  $0^\circ$  mark. This is your starting point for reading the other ray. The answer is along the straight edge at the 0-degree mark.



Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 6 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 6 times. That's real confidence. It is not pretend! ★

### Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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 Cheerleader

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

## PERFECT FOR:

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

★ **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.



### 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
- ✓ And More!



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Strengthens Critical Thinking & Problem Solving



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Prepares Students for Test Day Success